ENGLISH

1905

THE

JOHNSTON

HARVESTER COMPANY

BATAVIA, NEW YORK,

U.S.A.



JOHNSTON MACHINES,

including Grain and Corn Binders, Header, Mowers, Rake, Tedder, Disc Harrows and Disc Cultivator

ON EXHIBITION AT THE

Louisiana Purchase Exposition,

St. Louis, Mo.

1904,

Were given the GRAND PRIZE, the HIGHEST AWARD.

Three Juries, one of them an International Jury, passed on all of the exhibits.

THE RULES:

Rule No. 24 gave the following instructions to juries: "Value of machines, as measured by their usefulness, count not to exceed 25; skill and ingenuity displayed in invention and construction, count not to exceed 25; merits of installation of exhibit and value as an exposition attraction, count not to exceed 10; magnitude of business represented, as measured by gross sales, count not to exceed 10; quality of exhibit, and whether at regular selling price it is valuable acquisition to the purchaser, count not to exceed 10; exhibit ready promptly on time, count not to exceed 10; length of time exhibitor has been in business and improvements introduced, count not to exceed 5; number and character of awards received at former expositions, count not to exceed 5; total counts possible 100."

Rule No. 26, governing the system of awards, provided that the following scale of markings should be used in determining the final merits of an exhibit at the exposition and fixing the award that should be made, 100 being used as perfection: "Exhibits receiving markings ranging from 60 to 74, inclusive, bronze medal; 75 to 84, inclusive, silver medal; 85 to 94, inclusive, gold medal; 95 to 100, inclusive, grand prize."

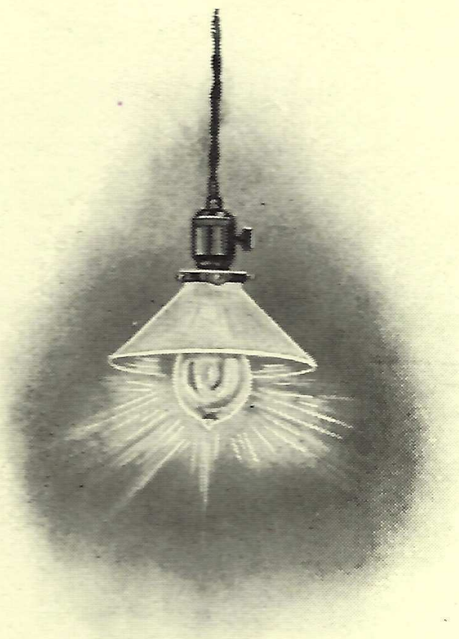
Thus it will be seen that these men, experts all of them, considered JOHNSTON machines:

Perfection in their Class;

Pioneers in their Class;

Of the Greatest Value for the Farmer's Use.

LIGHT FROM HEADQUARTERS



During the past season there have been wars and rumors of wars, trusts and rumors of trusts, and new members of trusts already formed. From all sides comes the question: "Are you in the trust?" We reply to this question without casting reflections on anyone. We are not building our business by "knocking" our competitors, but we do believe that "every tub must stand on its own bottom." Therefore, we take this occasion to inform farmers, dealers and the general public that

we are NOT IN THE "TRUST," that no stockholder of the Johnston Harvester Co. holds stock in any other harvesting machine company, and that no stockholder in the so-called trust holds any stock in The Johnston Harvester Co.

Our business is the manufacture and sale of Harvesting Machinery and Disk Implements, strictly on the merits of the goods themselves, and on our past record of dealing reasonably and fairly with every customer.

It is with pleasure that we announce on the opposite page that *Johnston* machines received the *Highest Award*, the *Grand Prize*, at the *Louisiana Purchase Exposition* just closed, at *St. Louis, Mo.*

This latest mark of *international favor* will be appreciated by our friends the world over, as it is by ourselves, a *mark of merit*, a reward *earned; not* a goal gained but a *position held* as manufacturers for 55 years of the highest class of farm machinery—a position which we intend to live up to.

The season's work has shown to us some distinct improvements that were desirable and advisable. They have been made, but are in no sense of the word experiments, having been tried and proven.

We invite your attention to the following pages. You will not find much flowery language or "hot air," but a plain statement of the points on which we base our claim to first place for Johnston machines.

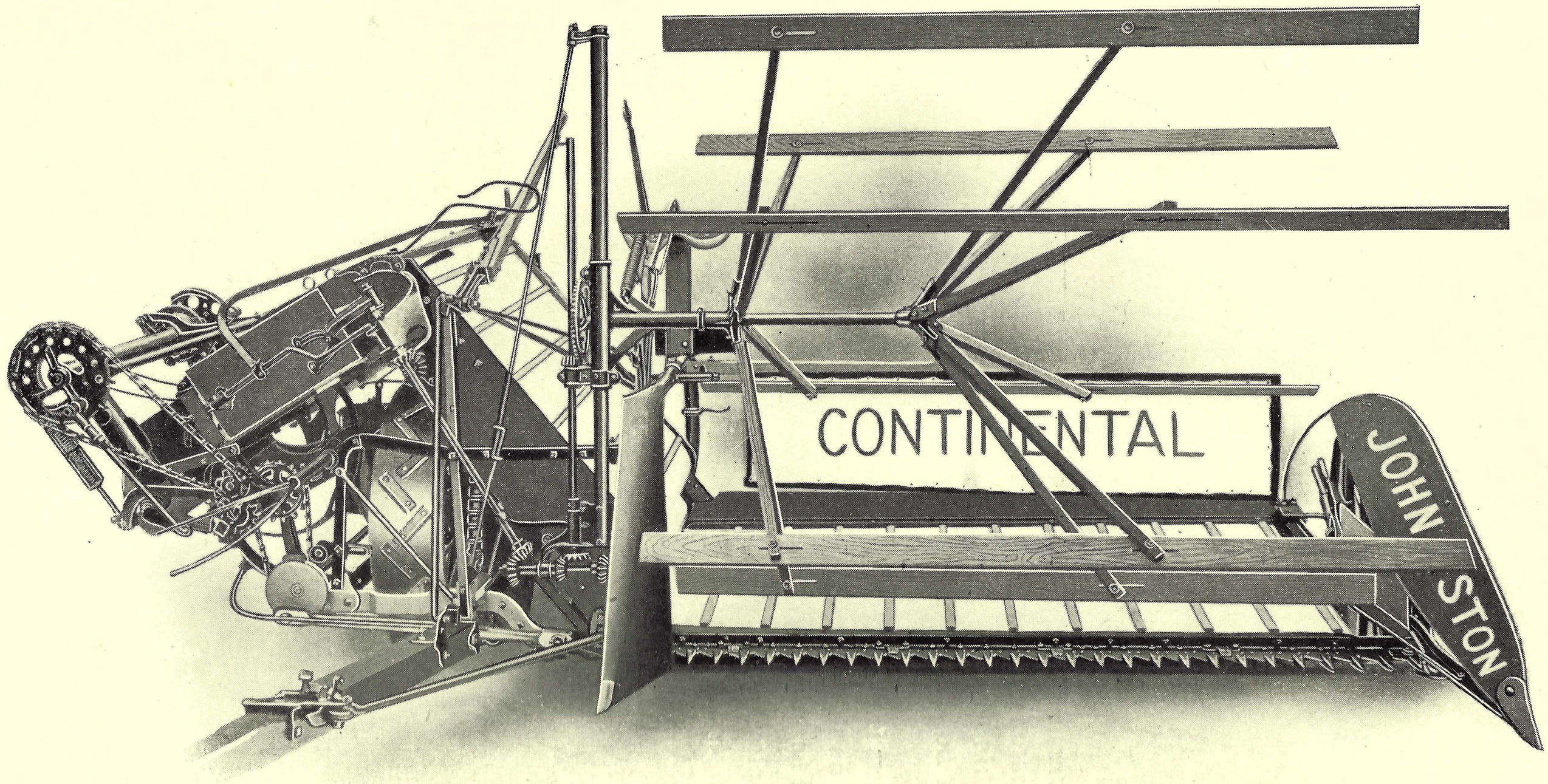
The JOHNSTON HARVESTER CO.

BATAVIA, NEW YORK, U. S. A.

BYRON E. HUNTLEY, Prest.
E. W. ATWATER, V. Prest. and Treas.
L. D. COLLINS, Secy.
G. A. FARRALL, Supt.

GIES-CO., BUFFALO.

Johnston "Continental" Binders



Sizes: 5 feet 6 inches, 6 feet 6 inches, 7 feet.

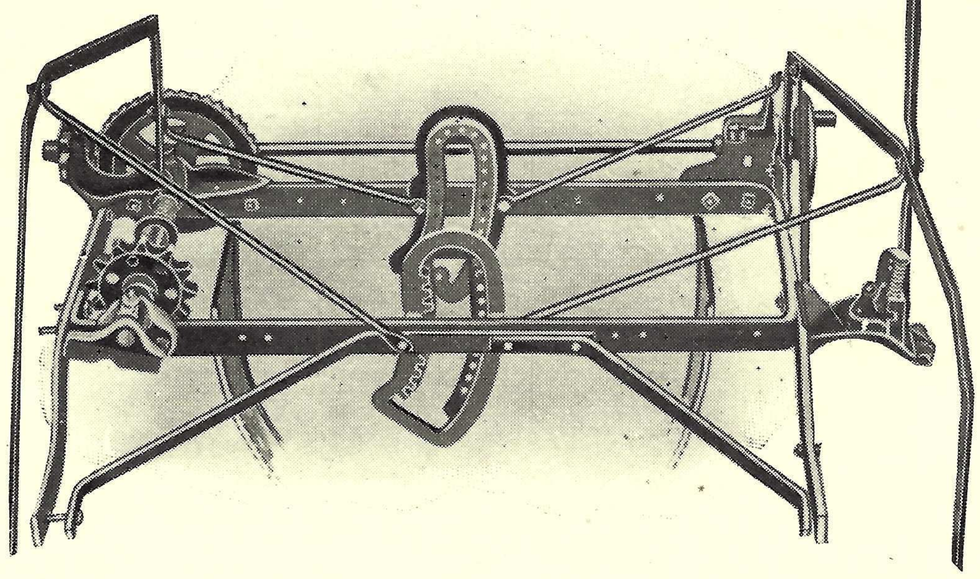
Left hand. Open end. Light draft. Great driving power. Largest elevator capacity. Gear-drive reel.

Johnston "Continental" Binders

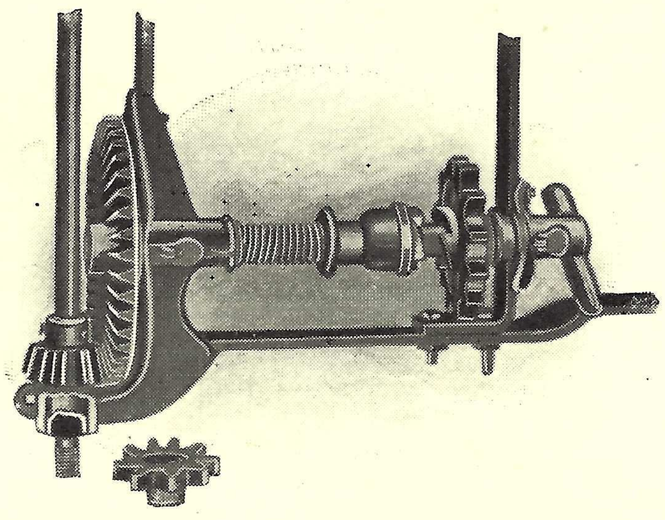


In Belgium.

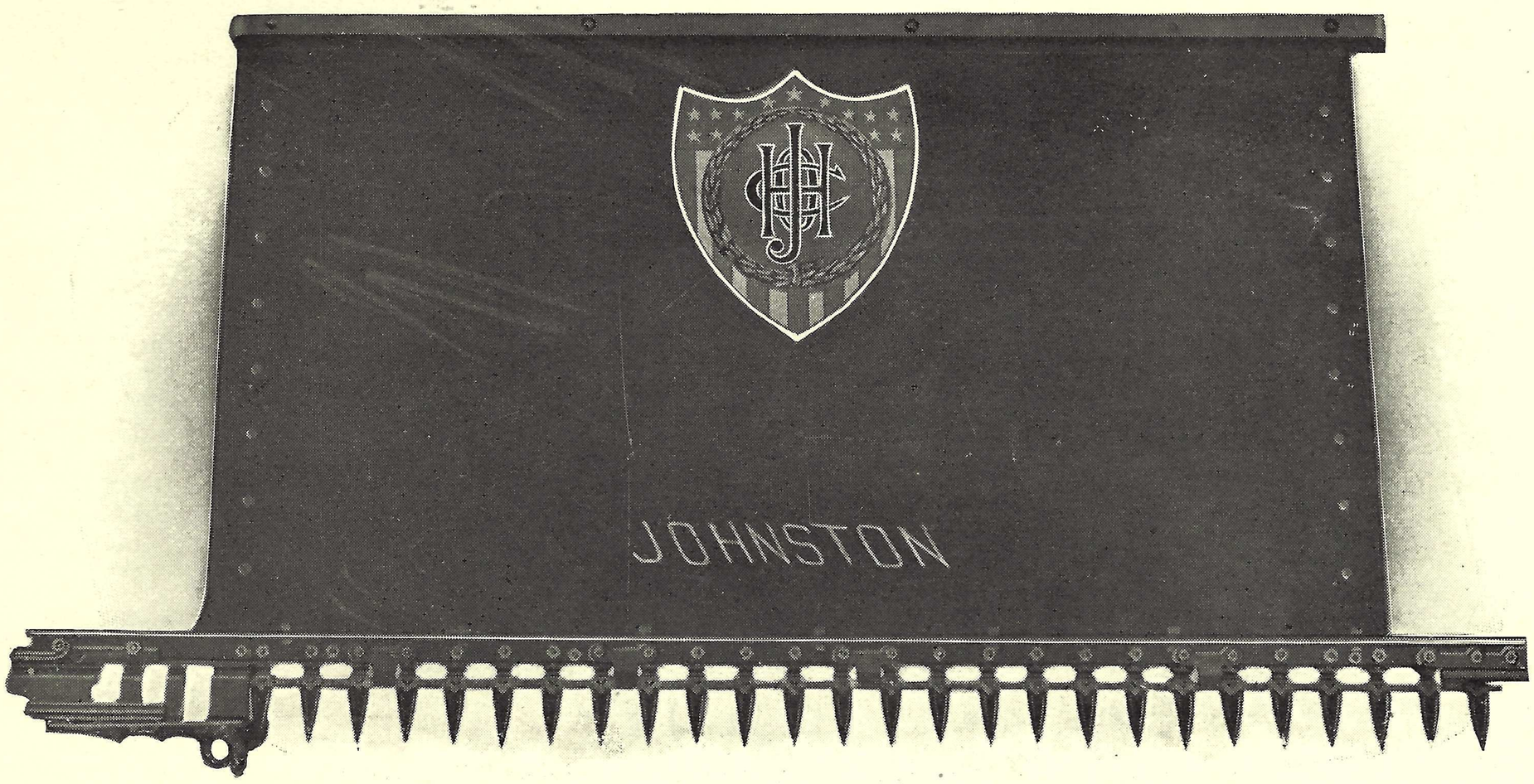
Like the big man who had large feet and bragged of his good understanding, we believe in a good bottom for the working parts of *Johnston Binders.* By this, we do not mean bigness, clumsiness. Just the opposite. We build just big *enough*, strong *enough*, durable *enough* to have a good beginning make a long-deferred ending. The right use of steel has produced for *Johnston* Binders :



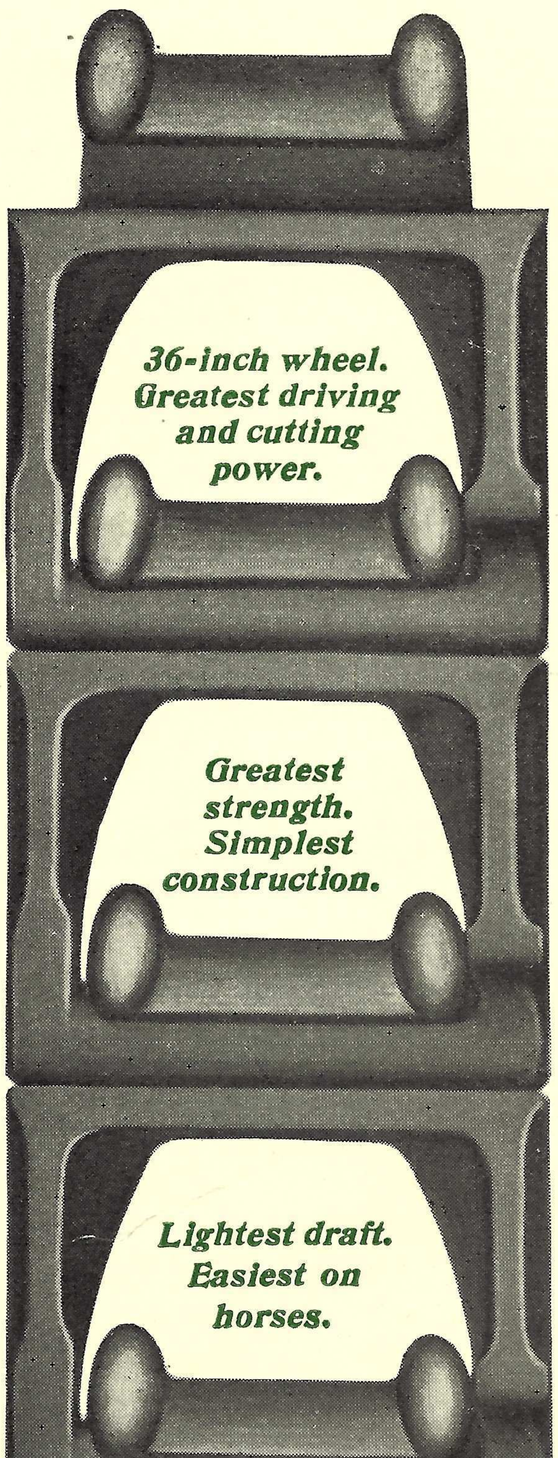
A main frame of high-carbon steel.
Steel elevator frames.
Sheet-steel platform, in one piece.
Angle-steel cutter bar.

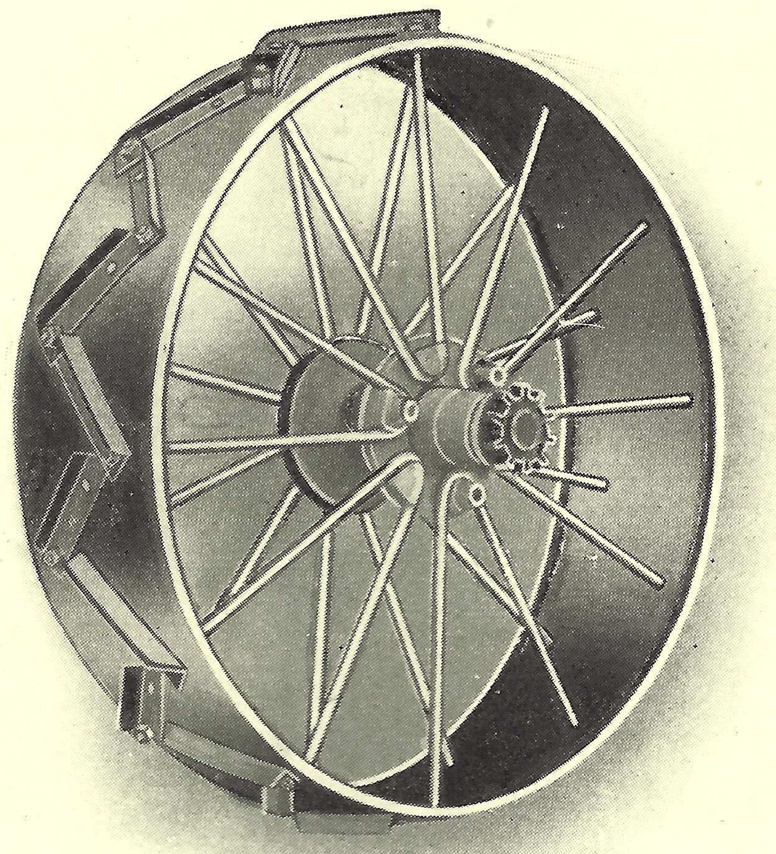


Both frames are steel braced and never sag. All necessary gearing and shafting compactly and securely fitted to the frame. A brass-bush bearing at rear end of crank shaft prevents heating. The main wheel has plenty of clearance on all sides. The guards, set flush with the bottom of the platform, allow close cutting. We make our own knives.

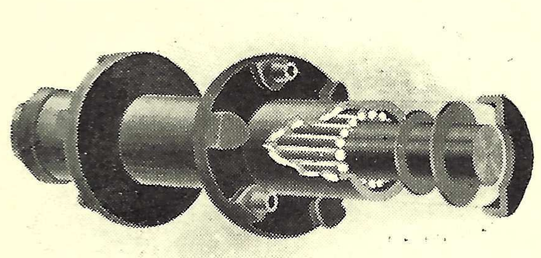


Johnston "Continental" Binders



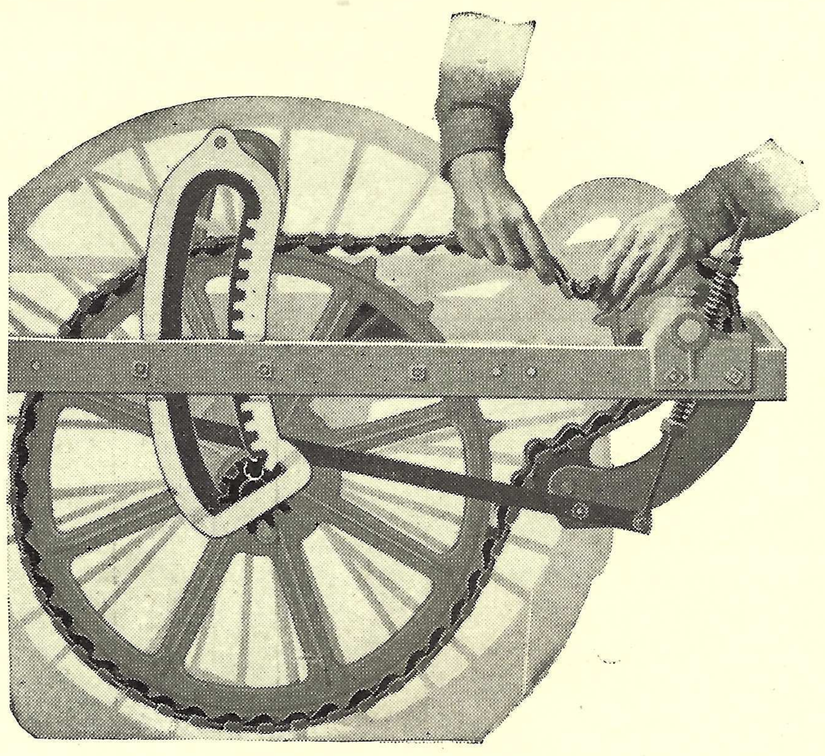


The steel main drive wheel is 36 inches in diameter. The cast hub is held in the center by steel hair-pin spokes, secured to a wide, beaded, steel rim. Angle-steel calks, placed diagonally to the edge of the rim but at right angles to each other, serve the double purpose of holding the spokes and doubling the driving power.



Dust-proof roller bearings in the hub reduce the friction and lighten the draft.

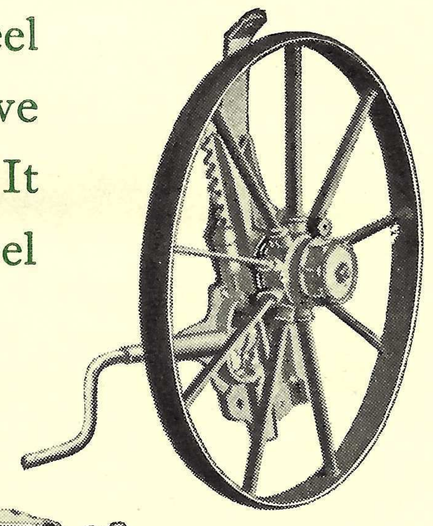
The special malleable drive chain wears well and may be removed without taking the wheel out of the frame. Simply lower the wheel to last notch in the segments, cut deep for the purpose. The cut tells the rest. A spring-adjustment tightener takes up the wear on the chain. It is simple and durable.

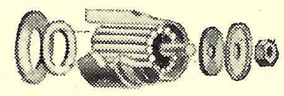


Johnston "Continental" Binders



The Man Behind the Binder



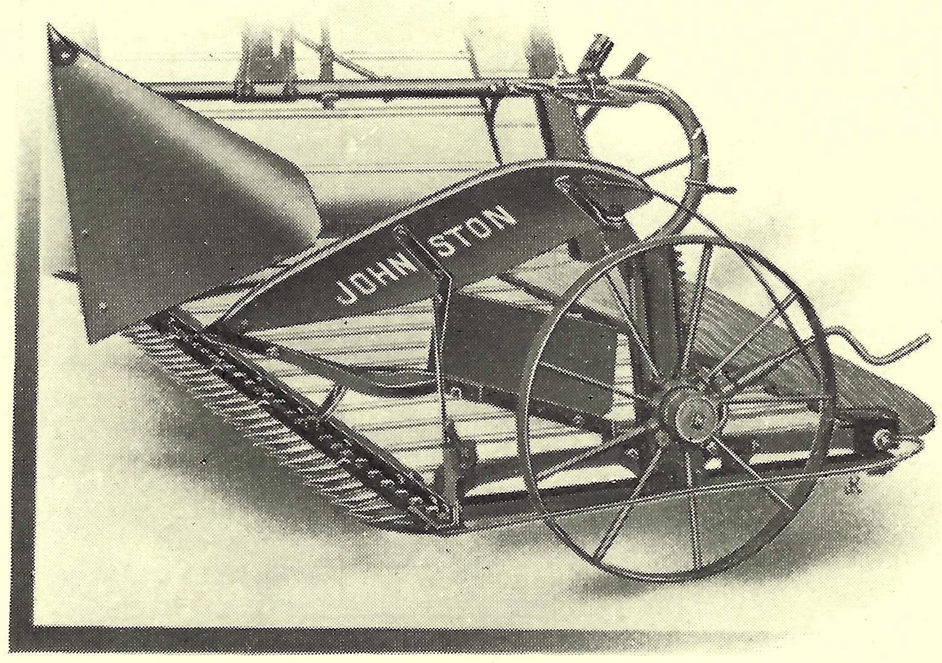


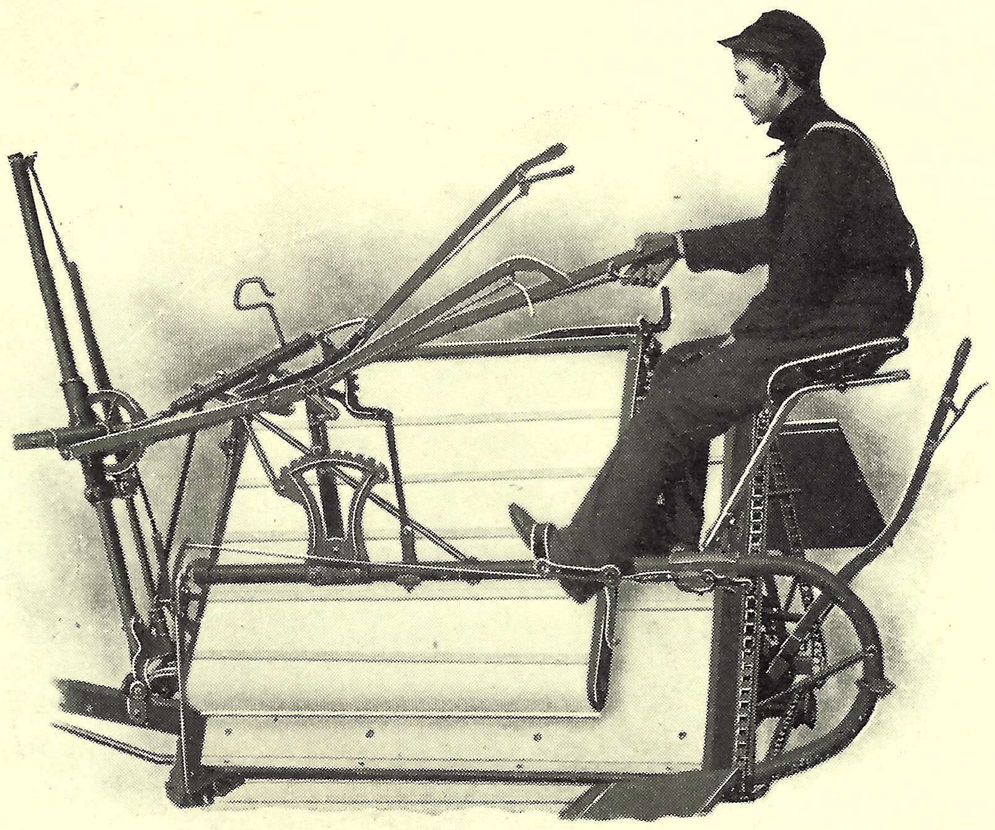
Steel Grain Wheel, Folding Dividers, Right-Hand Levers

At the outer end of the platform, the wheel must run lightly and true. It must have a broad rim that will not cut in. It should have roller bearings. The Johnston steel grain wheel has all of these points.

Each end of the platform is raised and lowered separately by simple, effective devices.

Both dividers are steel construction. Both fold out of the way, without your touching a single bolt or nut. This is a great convenience, when the binder is on the road or passing through narrow gateways.





All levers, except for carrier (operated by the foot) and back-wing, are on the right-hand side. The advantage is plain.

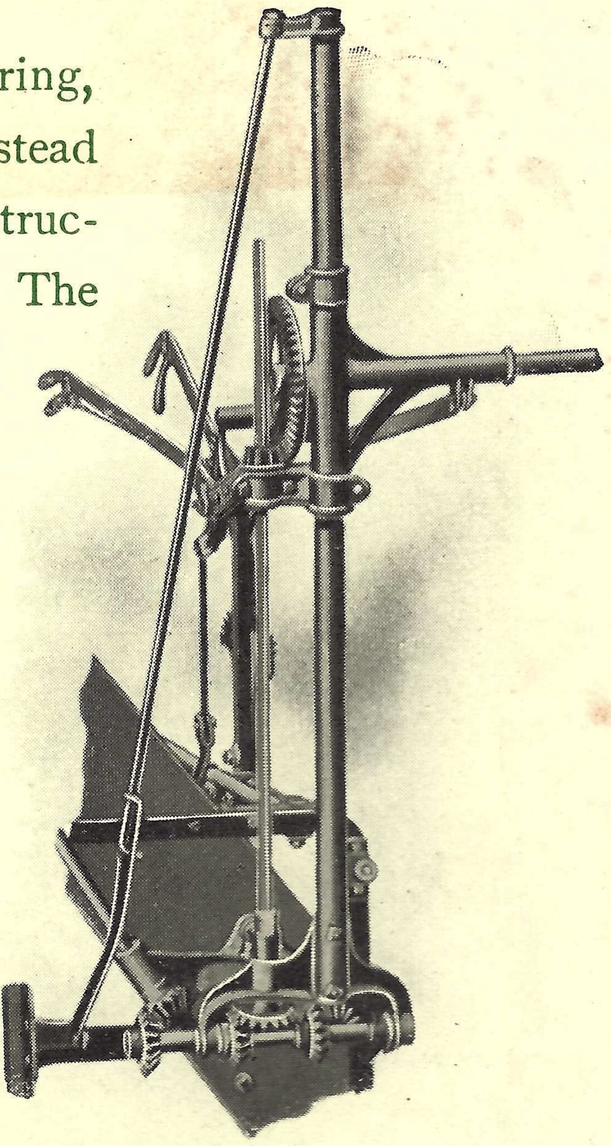
Your attention is called especially to the new reel levers. They work so easily that you can almost shift your reel by talking to the levers.

Johnston "Continental" Binders



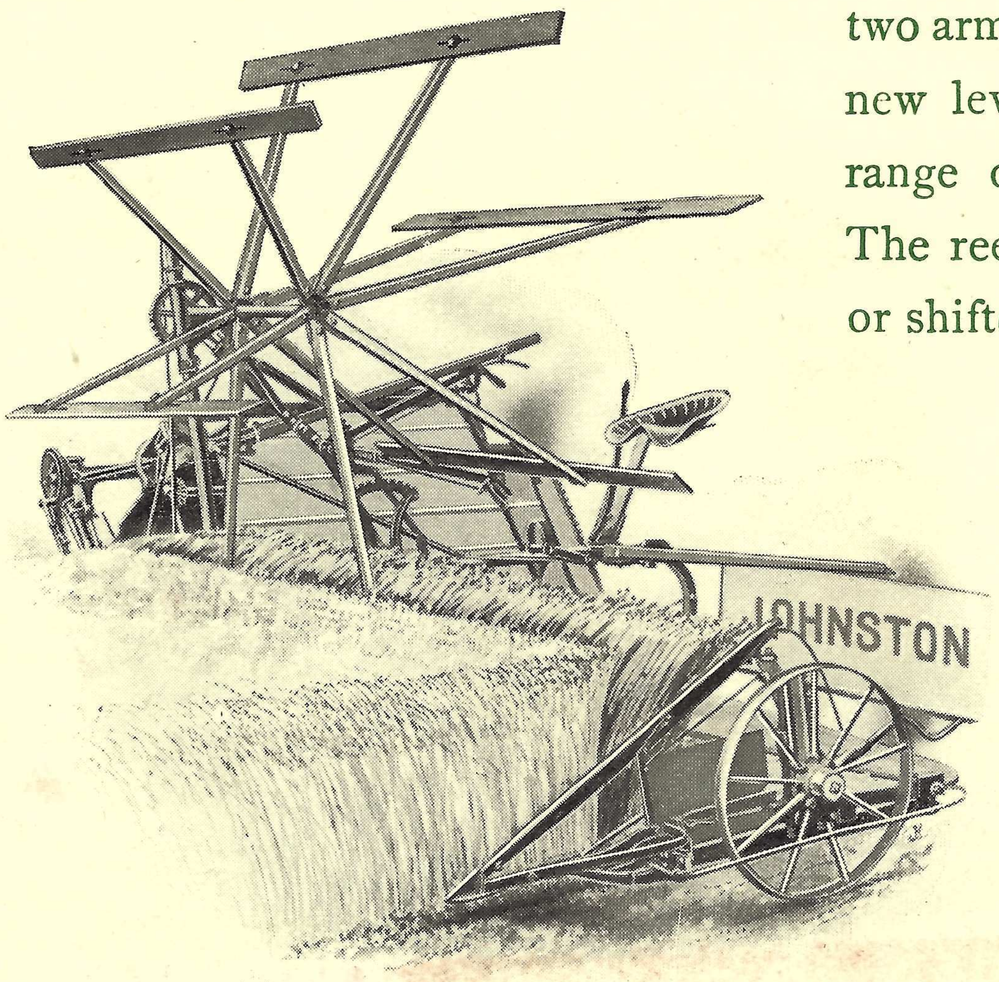
The Boss in Spain

The new Johnston reel is driven by gearing, has double head and six beaters instead of five. The advantages of this construction are many and will be appreciated. The whole arrangement is stronger, more compactly built, lighter. It works perfectly in all its parts. There is no lost motion. The reel revolves on a steel pipe axle and the beaters have perfect support from two arm sockets. The new levers give wide range of adjustment. The reel can be tilted or shifted quickly.

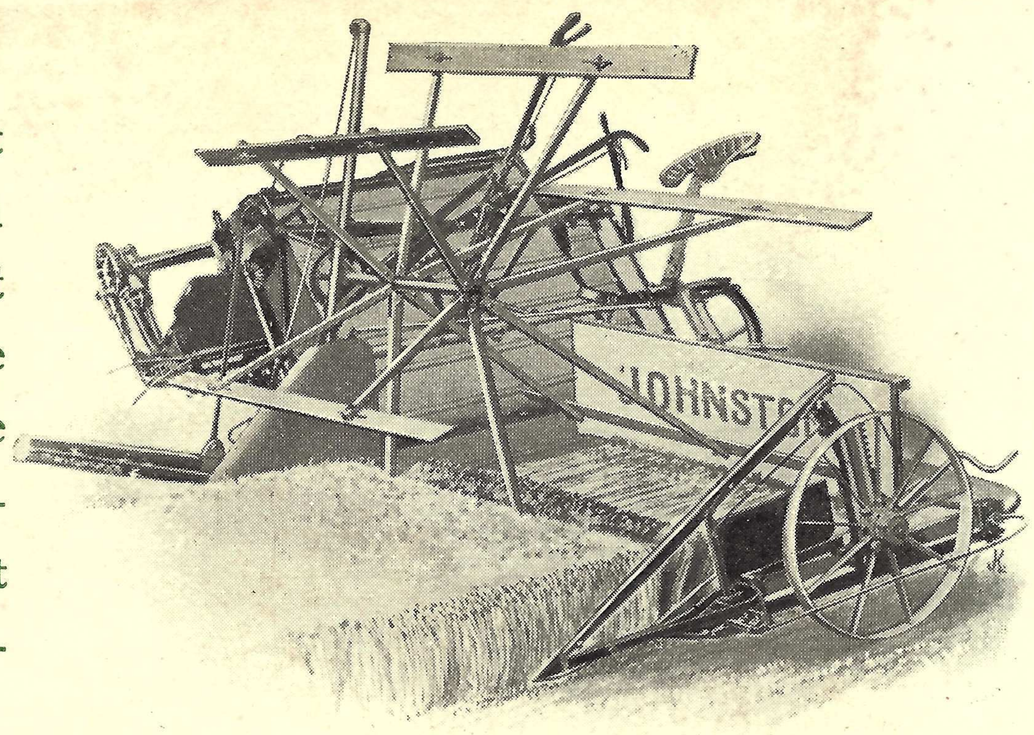


For grain that is tall, short or medium, standing or down, straight or tangled, heavy or light.

In shifting, a balance spring carries the weight of the reel and helps in making the adjustments.

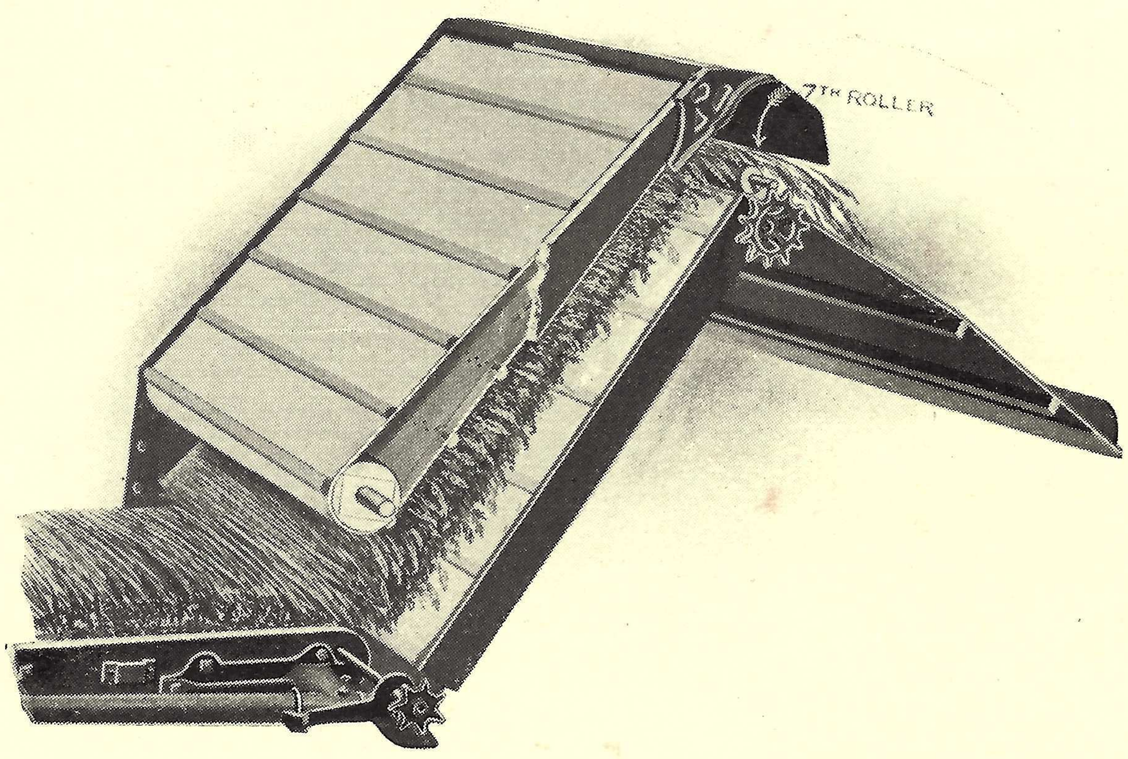


We show the reel set for the tallest and the shortest grain. In the second cut, note that the binder attachment is shifted forward, so that the bundle of short grain can be bound in the center. The backwing also is adjustable, to accommodate long or short grain and may be removed when necessary.



Johnston "Continental" Binders

Johnston Binders have 5¼-inch roller at lower end of the upper elevator. It is the largest roller for the purpose in use on any binder. This construction holds the canvases taut for light grain, but provides room for canvases to give, when carrying heavy grain in bunches. No loss, no clogging, in either case. This roller makes



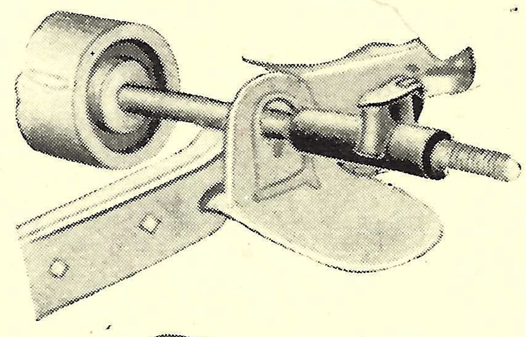
Johnston Elevators have greater capacity than on any other binder.

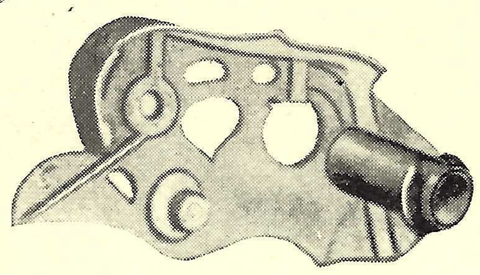
It pulls all tangled or short grain into the throat of the elevator, instead of pushing it out between the lower rollers. It is a "built-up" roller and will not warp. The seventh roller prevents loss at the top and helps movement of grain to the binder deck. Self-aligning boxes make the rollers run true. The boxes are detachable and are cheaply replaced.

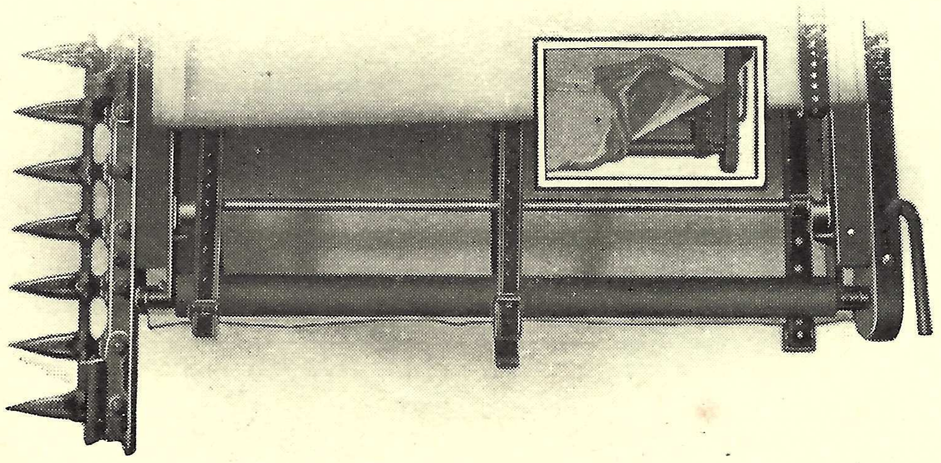


The canvases are made of the best grade of duck, inch elm cleats and leather straps. They are well hemmed and riveted, and are tacked every half inch.

Each canvas is provided with a simple tightener. They are placed out of the way and are operated by eccentric (without springs) from the outside.

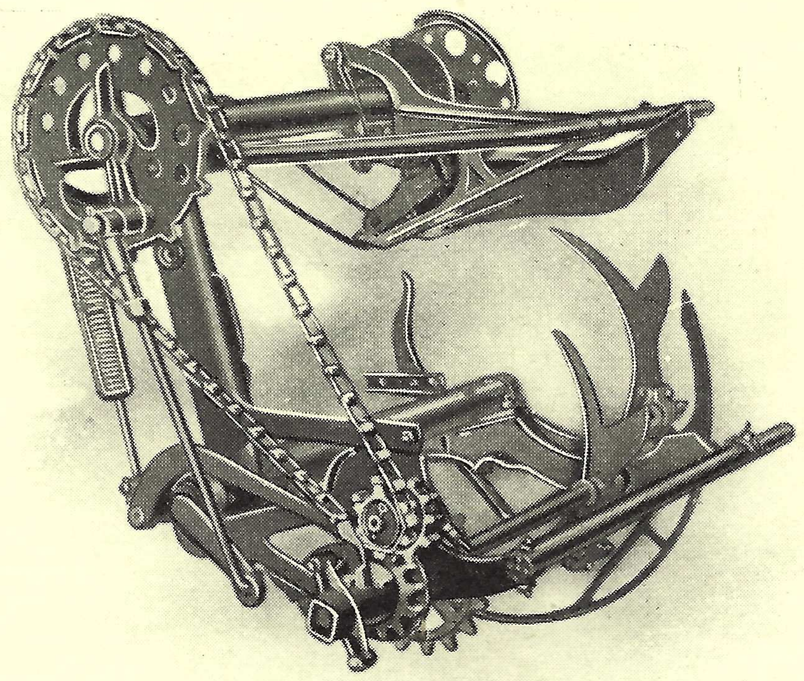






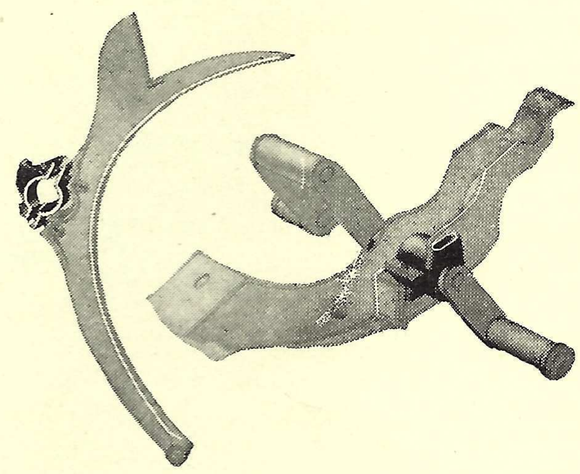
Johnston "Continental" Binders





The Johnston Binder attachment is simple in construction, works absolutely perfect, wears well. The packers and driving dog arm are always in perfect time with the needle. The packers keep just ahead of the needle, doing the heavy work. The packers and packer crank boxes run in detachable boxes. They are self-oiling, reduce friction and are cheaply replaced when worn.

The trip and compressor spring are adjusted independently, but one nut takes up the wear.



The Johnston Trip never repeats or causes the making of small bundles. The Johnston Knotter always ties.

This knotter has been built in the same way exactly for 16 years. We never have trouble with it. Its uniform success is due mainly to three things: positive action of knotting hook, knife arm and twine holder gear, skillful fitting and thorough testing. All parts are cam driven and must work right.

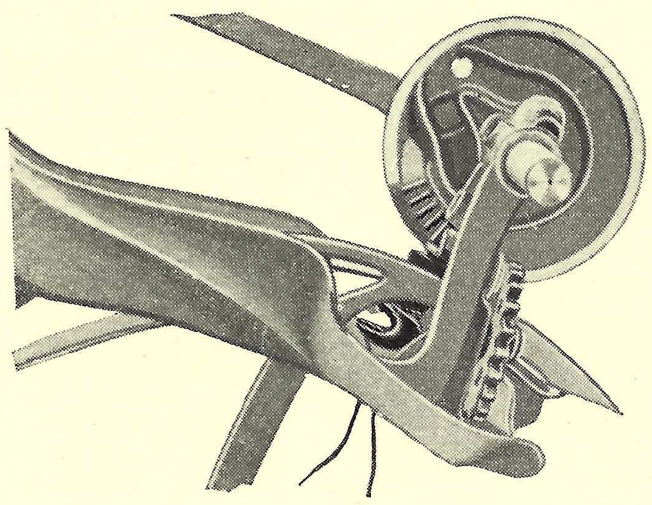


Fig. No. 1.

Fig. No. 1 shows cam for knotting hook; Fig. No. 2, the knot tied and the twine being cut and pushed from the hook; Fig. No. 3, the cam for twine holder gear. Each cog on the latter means a bundle tied.

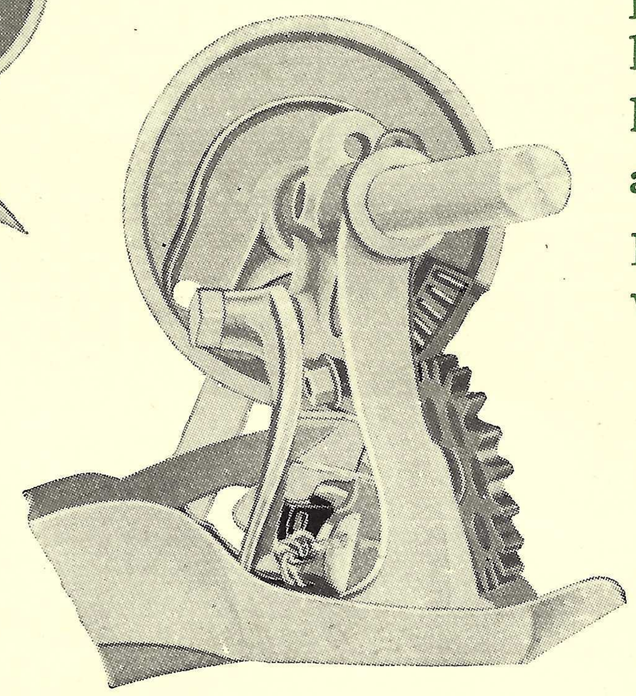


Fig. No. 2.

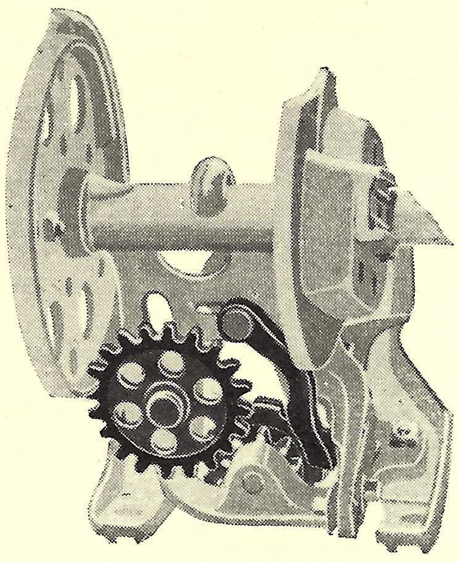
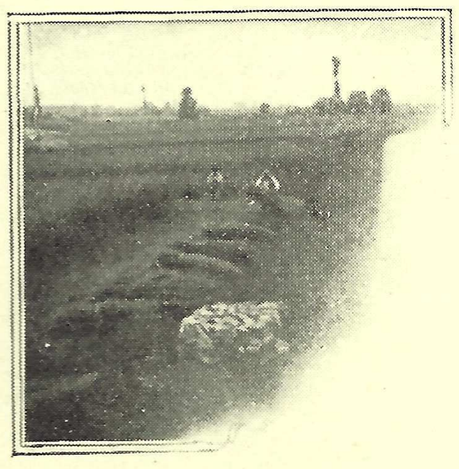


Fig. No. 3.

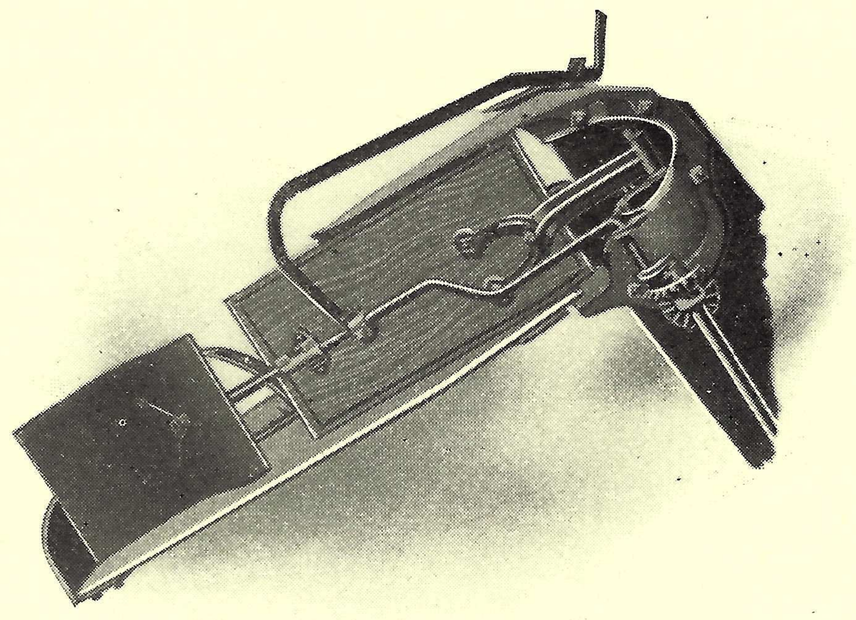
The third discharge arm can be adjusted ahead of the other discharge arms, to part the heads in heavy tangled grain.

Johnston "Continental" Binders



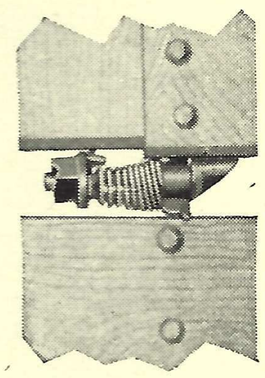
At Chalon sur Saone, France.

The butter is a light board with malleable fittings and a sheet-steel extension. It keeps the butts even. The butter lever, in connection with the binder shifter lever, controls the placing of the twine.

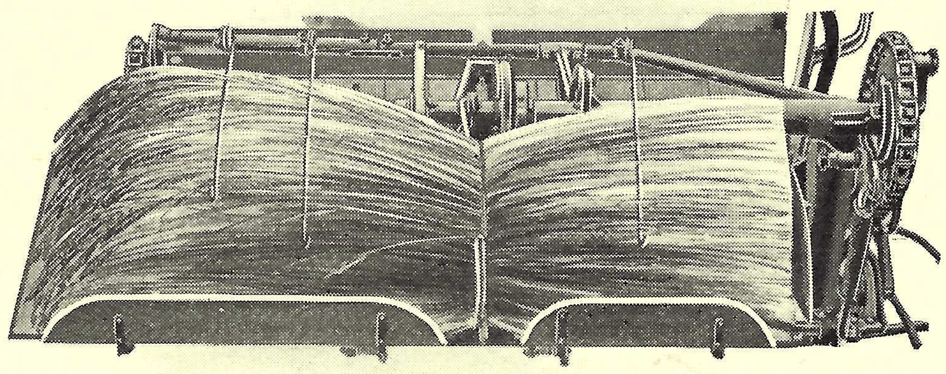


Either long or short bundles are bound in the middle.

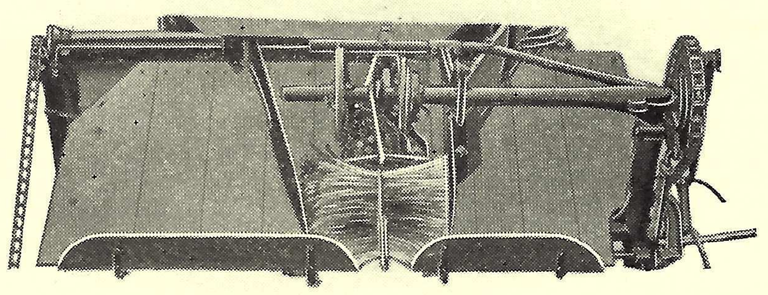
You can bind the long grain 24 inches from the butt of the bundle, and the short grain 6½ inches from the butt.

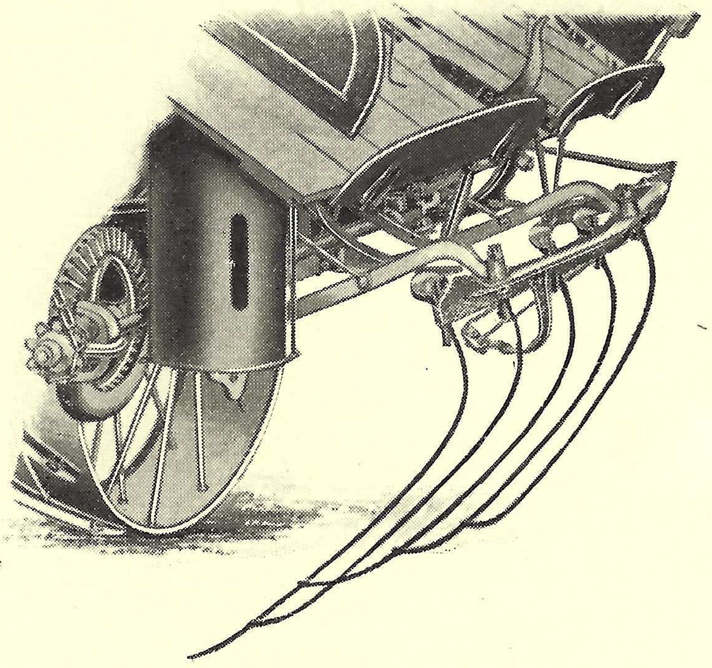


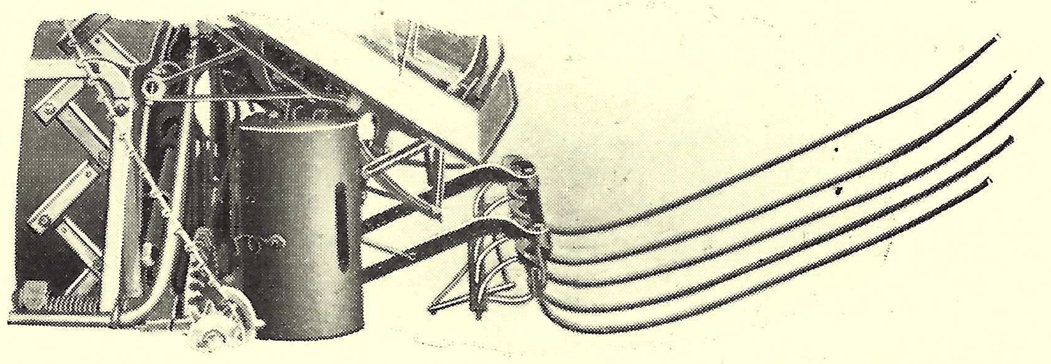
Steep-slanted decks help to keep the grain moving rapidly. They have spring-trip dump boards. One nut takes up the wear in the spring.



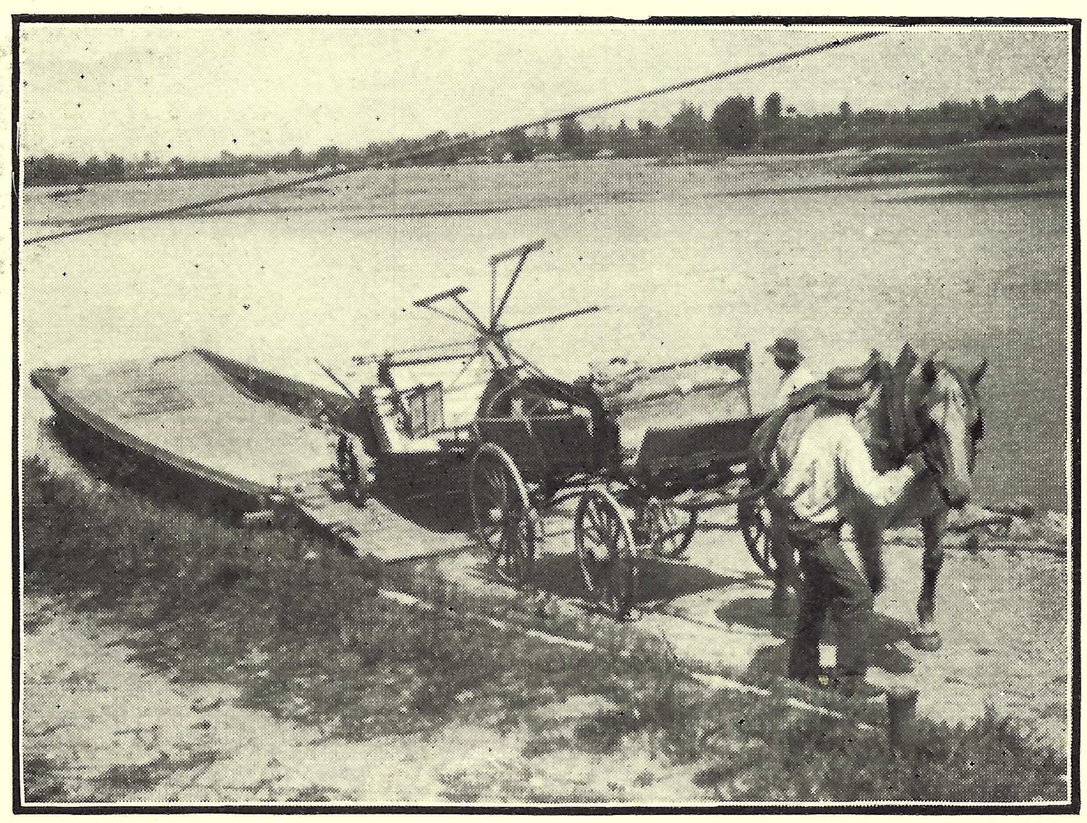
The folding steel bundle carrier carries its load easily, and dumps and returns to place quickly. It is operated from the seat by a foot lever. The steel fingers fold toward the rear, out of the way of stumps and other obstructions.







Johnston Transporting Truck

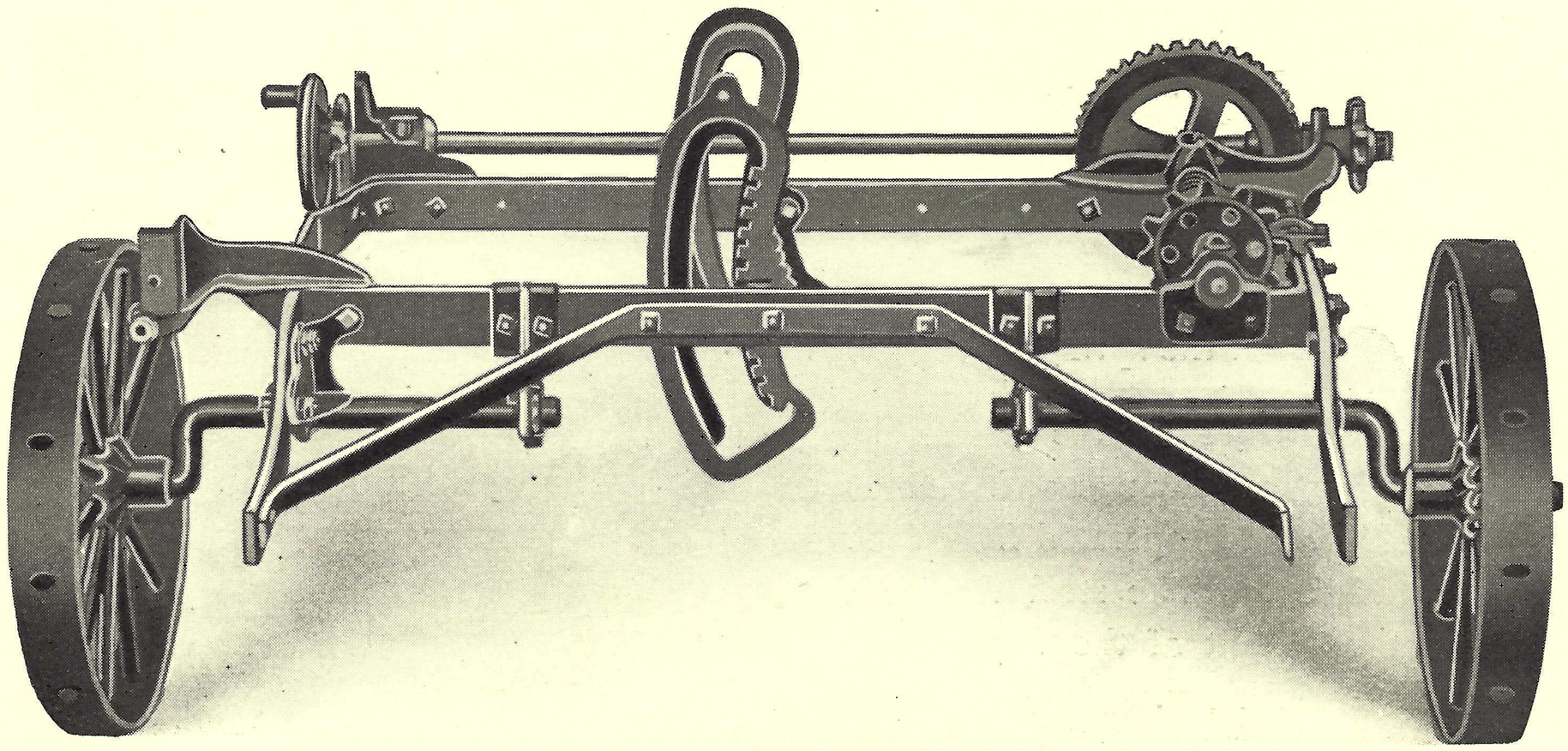


Johnston Binder Crossing the Loire by Ferry.

They are made up of two small steel axles, four malleable supports and a pair of special steel wheels.

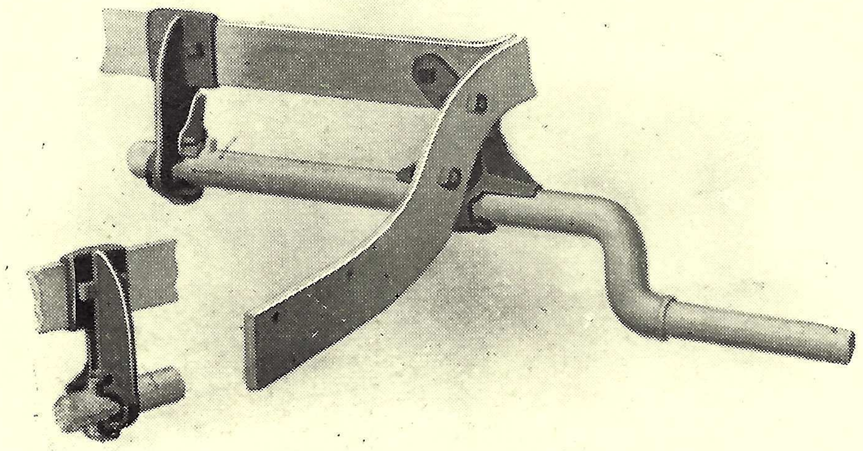
The binder can be mounted on this truck in five minutes.

Each wheel, with its axle, is adjusted easily without taking off a single piece or nut.



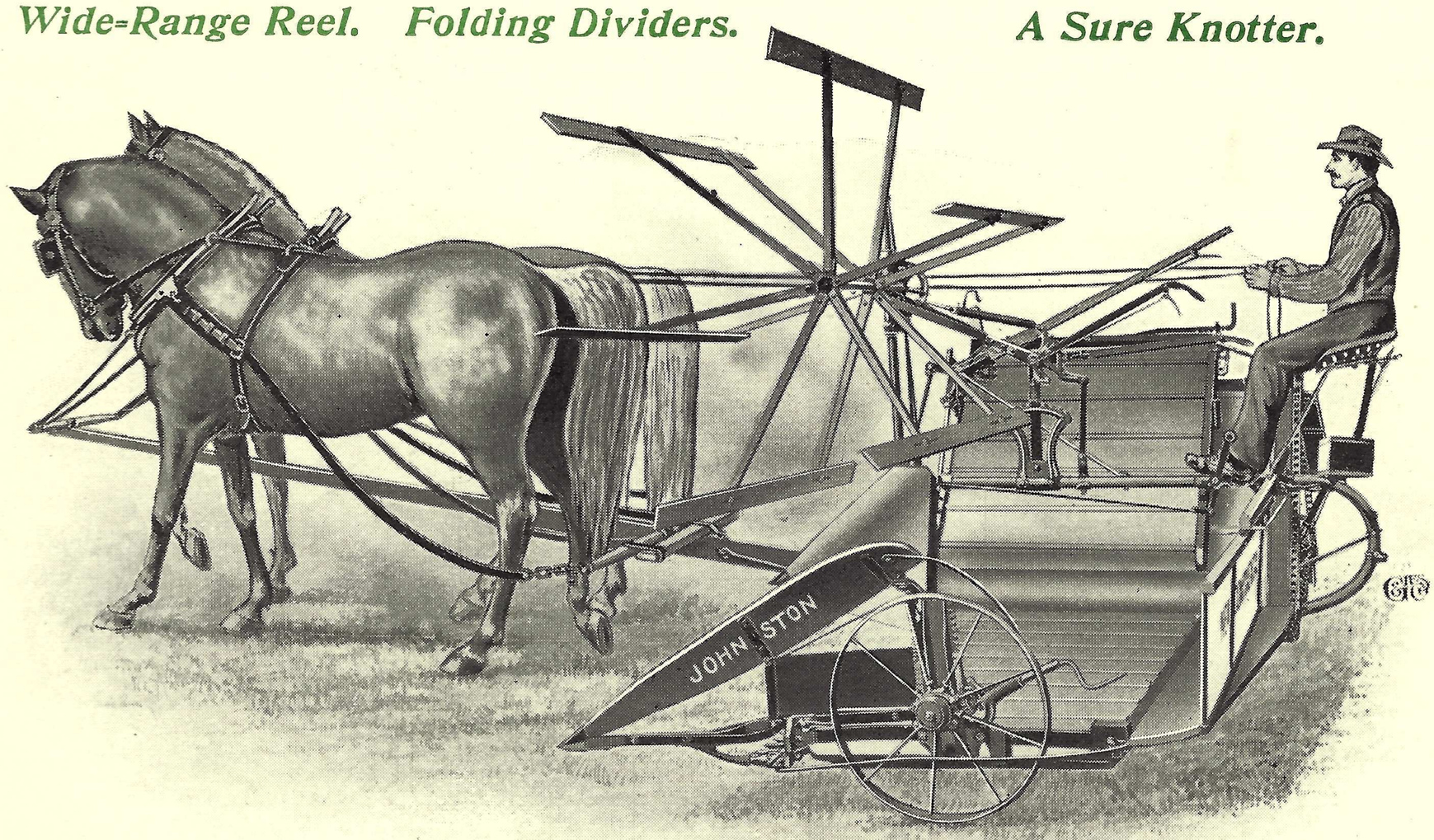
The accompanying cut gives a view of the truck. The axles are kept in place by pins at the ends, which fit in the notches in the supports. A lock lever let down on the axle holds it firmly.

To insert or remove the axle, it is only necessary to give it a quarter turn to allow the notches to pass through the grooves of the supports.



Johnston "Continental" Binders

Wide-Range Reel. ***Folding Dividers.*** ***A Sure Knotter.***



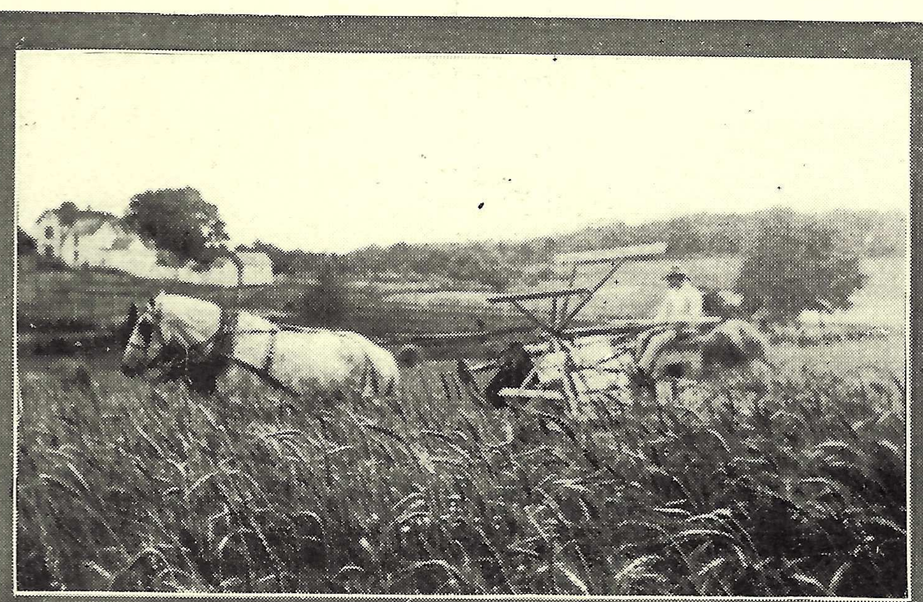
"DID NOT FAIL TO TIE A SINGLE BUNDLE."

The Johnston Harvester Co., Harrisburg, Pa. Kinloch Farm, Remington, Va., July 8, 1904.

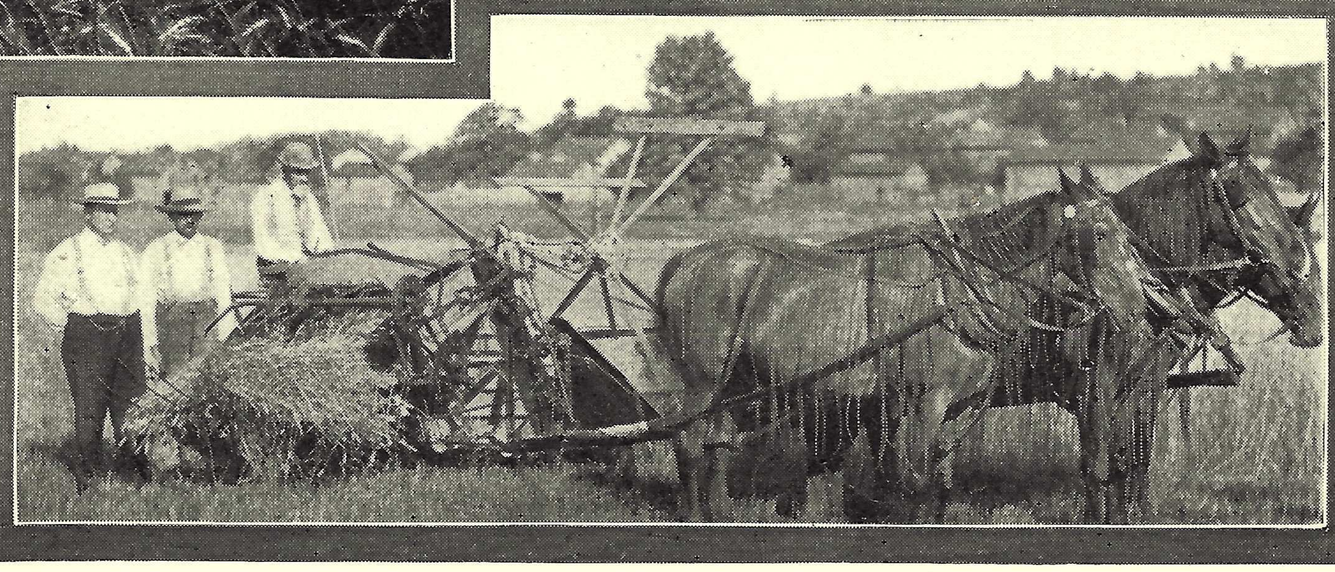
GENTLEMEN: The "Continental" Binder bought of your local agent, E. L. Yancey, Culpeper, Va., is all that can be expected of a binder. It does beautiful work and in two days' cutting did not fail to tie a single bundle. It is easy to operate and light draft, and I believe the best machine on the market.

Anyone who wants a binder that will please him most I would advise to buy a Johnston "Continental."

Very respectfully,
F. E. BOWMAN.

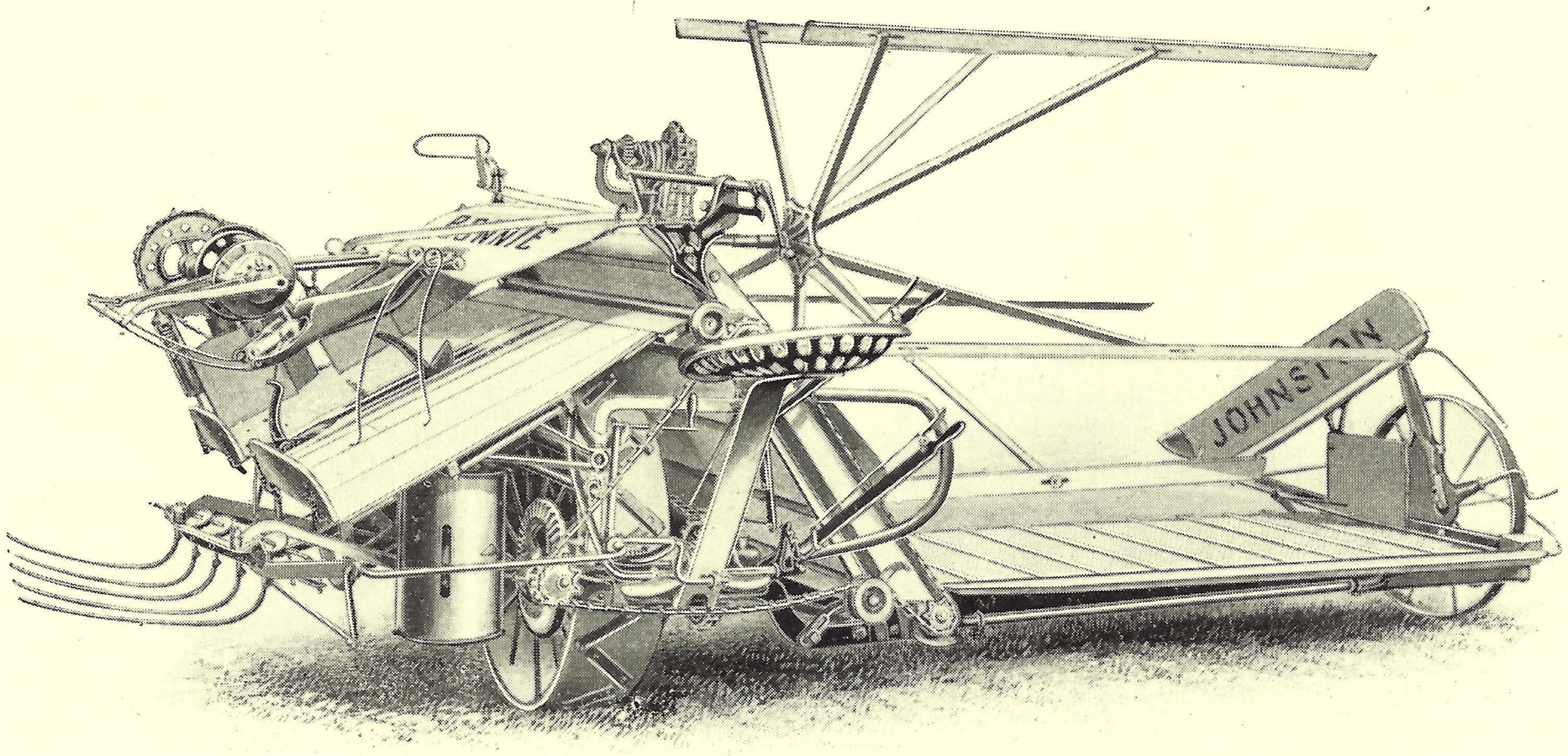


"Continental" at Remington, Va.



Ready for Business.

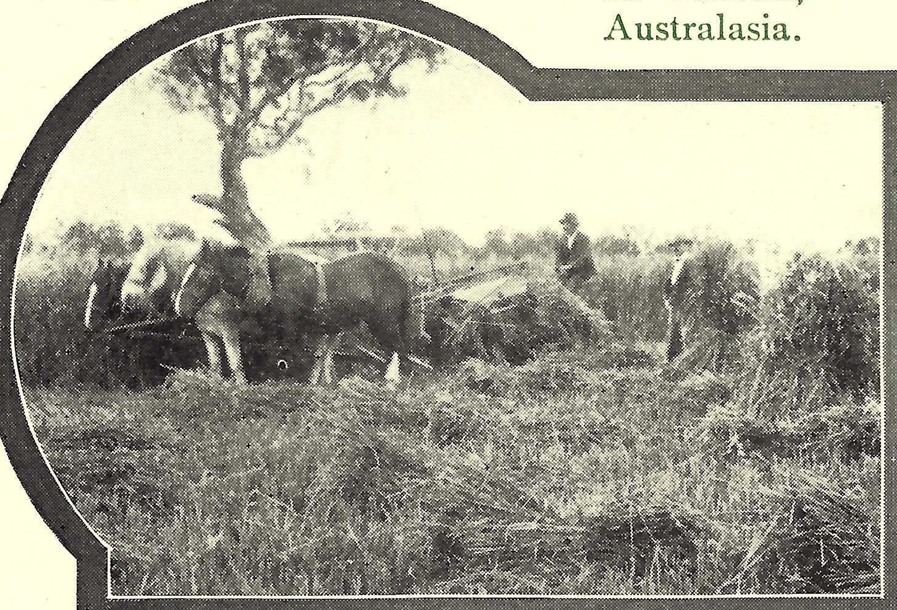
Johnston "Bonnie" Binders



Our right-hand binder. ***The only successful low-elevator binder on the market;*** low enough to make it a light-draft reality, with power and strength enough to cut, carry and bind the heaviest crops, and a range of adjustment sufficient to care for grain under the worst possible conditions.

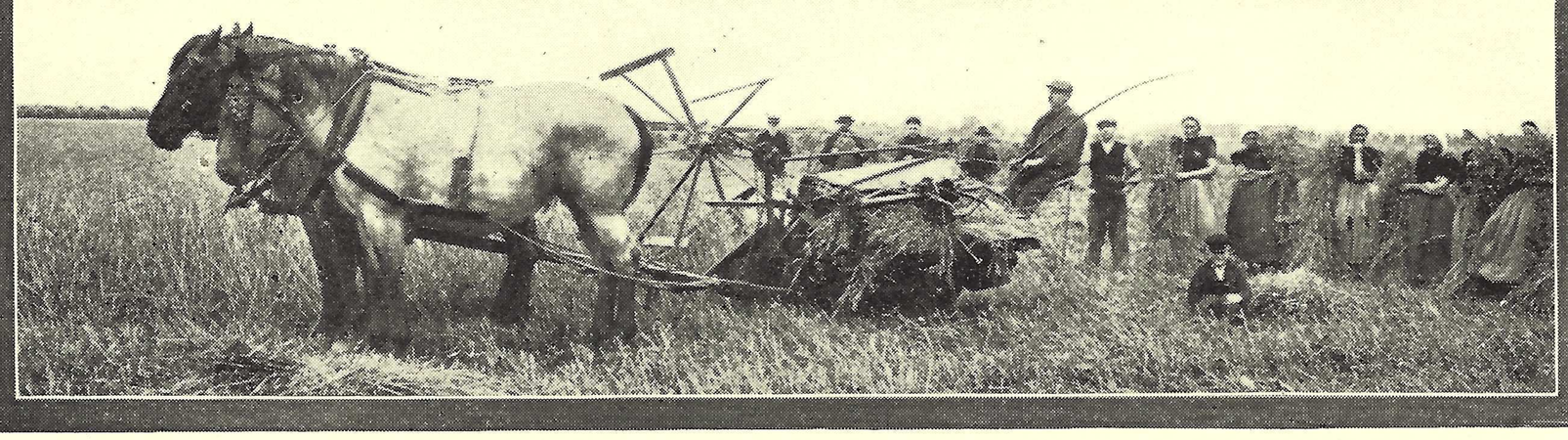
The "Bonnie" is built on the same general lines as the Johnston "Continental." The "Bonnie" elevates grain to a height of 27 inches only.

In Victoria, Australasia.



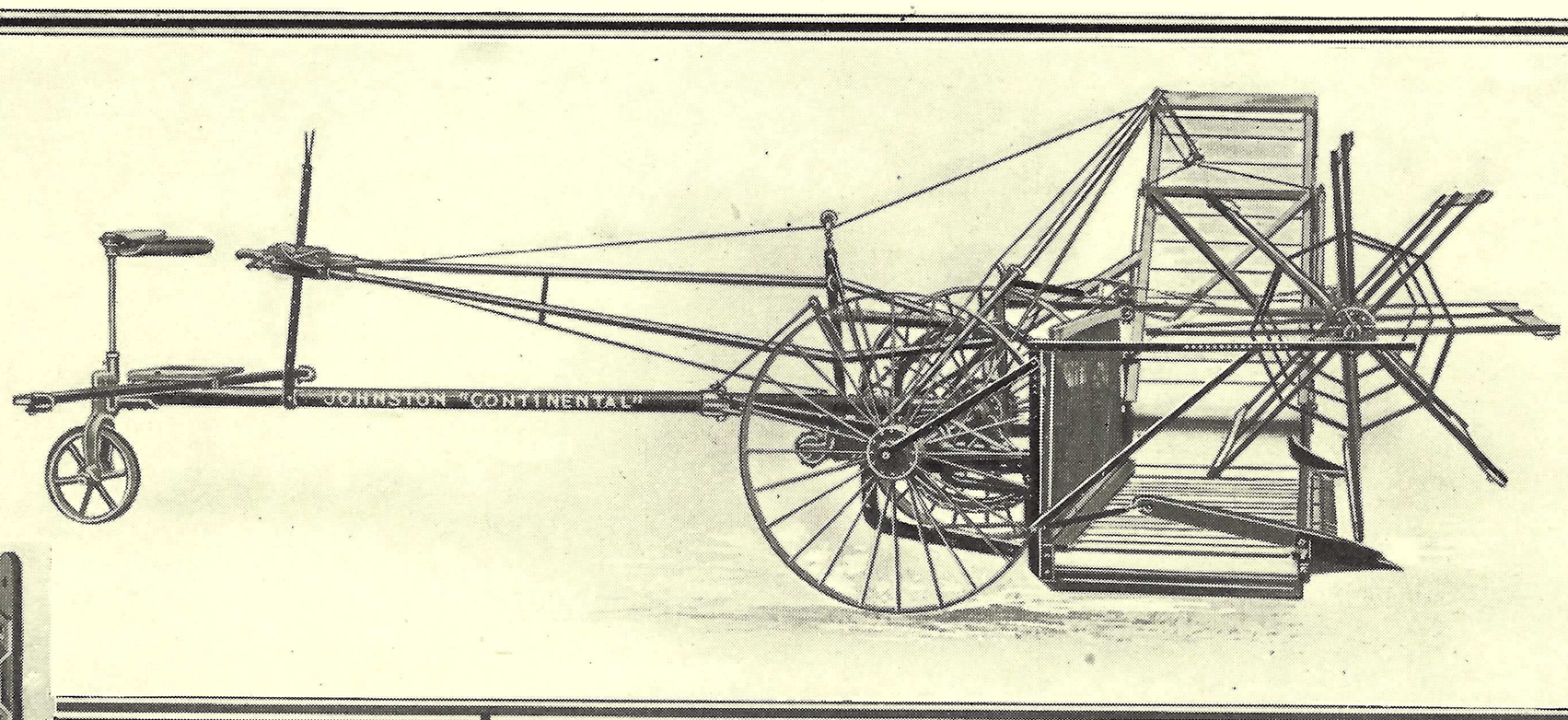
On the Hillsides at Palermo, Sicily.





"Bonnie" in Holland.

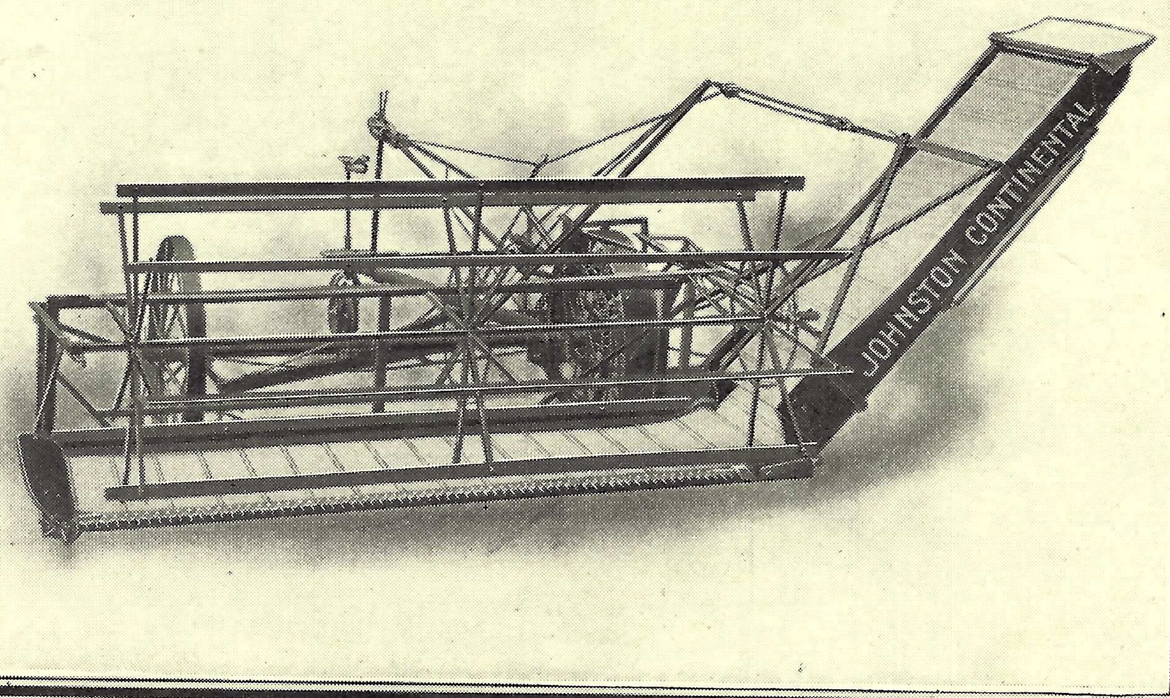
Johnston Headers and Header-Binders



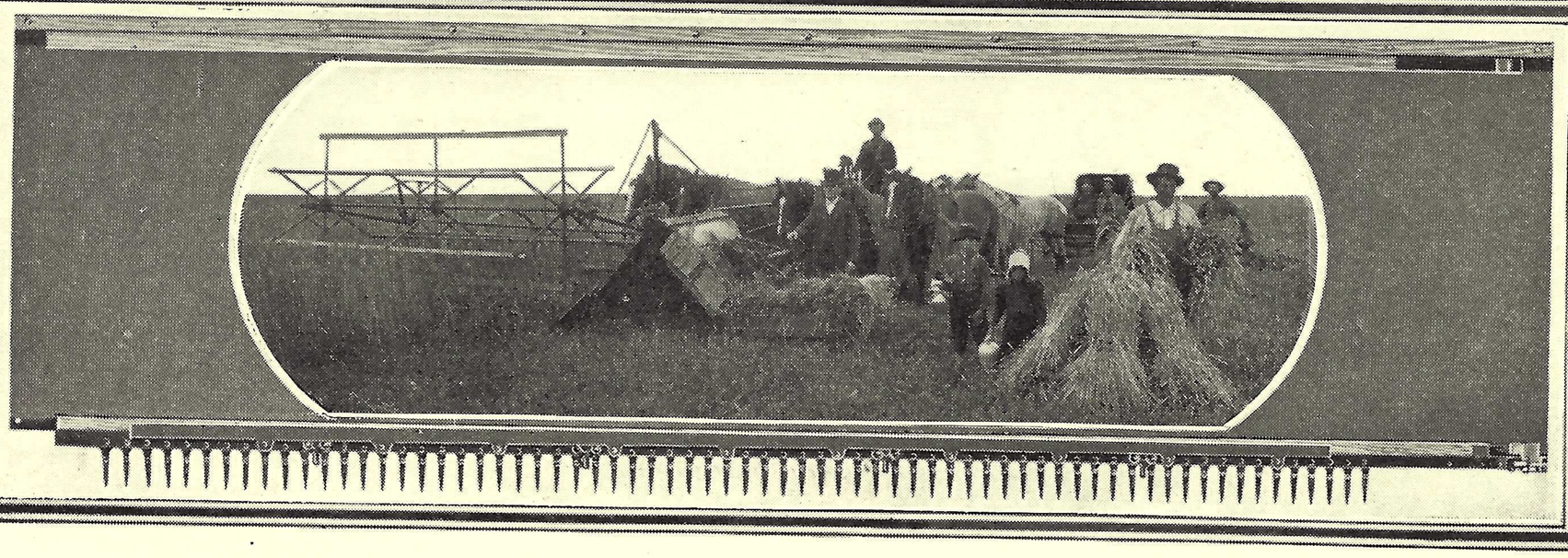
The No. 2, for heading only. Sizes: 10 and 12 feet.

The No. 2

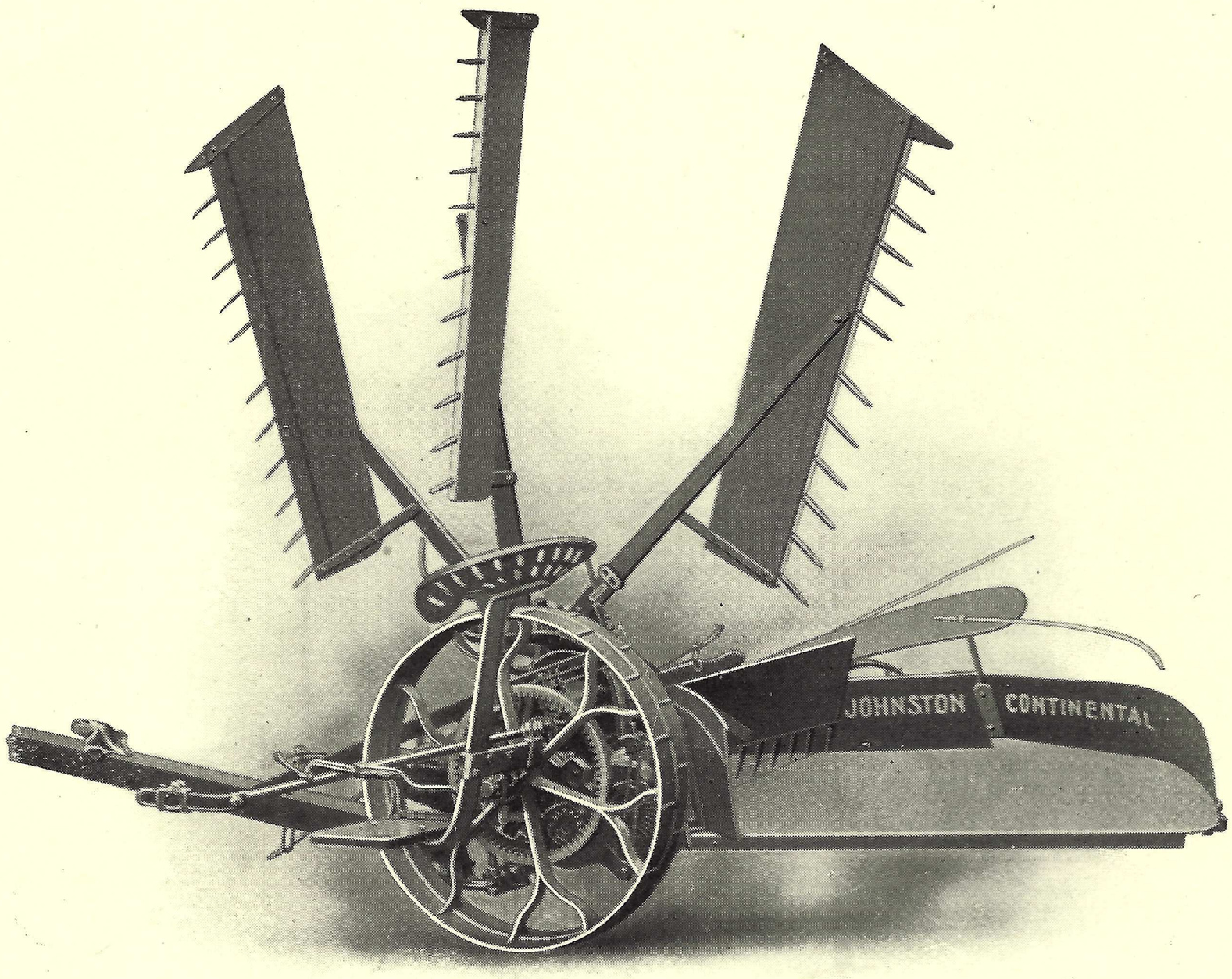
has 52-inch drive wheel, steel wheels, main axle, frame, pole, platform and tilting levers. Z-shaped cutter bar prevents loss in very short grain. Simplest system of gearing, detachable boxes.



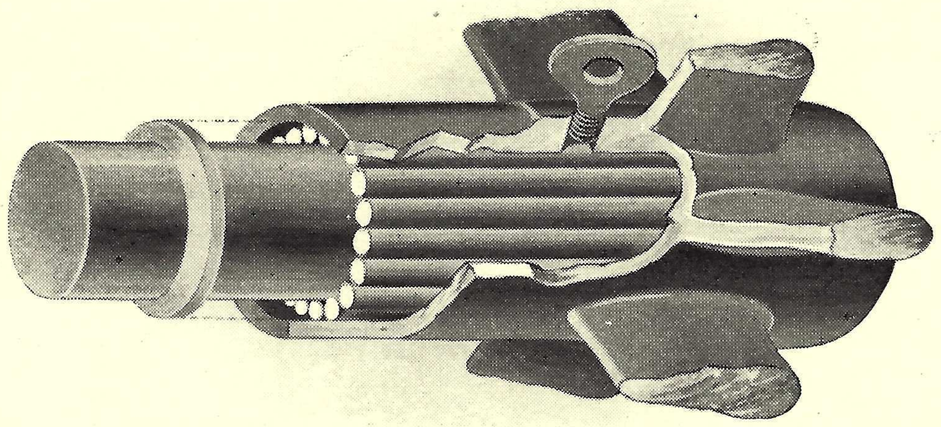
The Combined Header and Binder is built to take the Header Elevator. Can be used either for Heading or Binding.



Johnston "Continental" Reaper



We are entirely willing to let the "Continental's" past service show what it can and will do in the future. We claim for it, especially, that ***it is the lightest draft reaper manufactured,*** that it will do clean, perfect work, with the least burden for the horses and none for the operator. The strong main frame makes a perfect foundation. A wide-rim drive wheel gives increased power. Roller bearings, used in hub of drive wheel, reduce friction to the minimum. The bearings are thoroughly protected from dust. Each end of the platform is raised and lowered independently. Outer divider and grain wheel are light, yet strong. The wheel is hung on a pivot, castor fashion, and swings so as to save the wheel extra strain, when turning, backing or passing over obstructions.





At Torroella de Montgri, Spain.

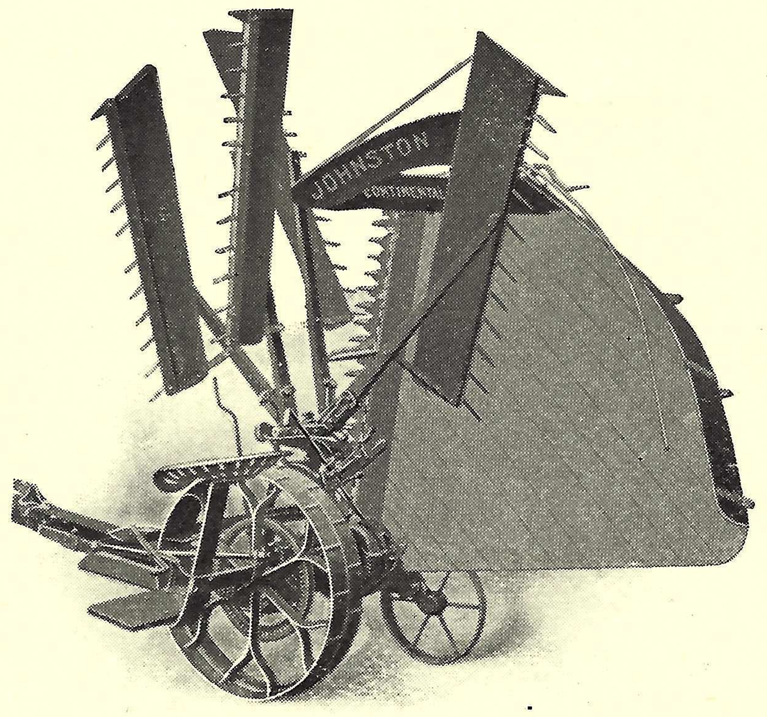
Johnston "Continental" Reaper



A Stockholder in Hungary.

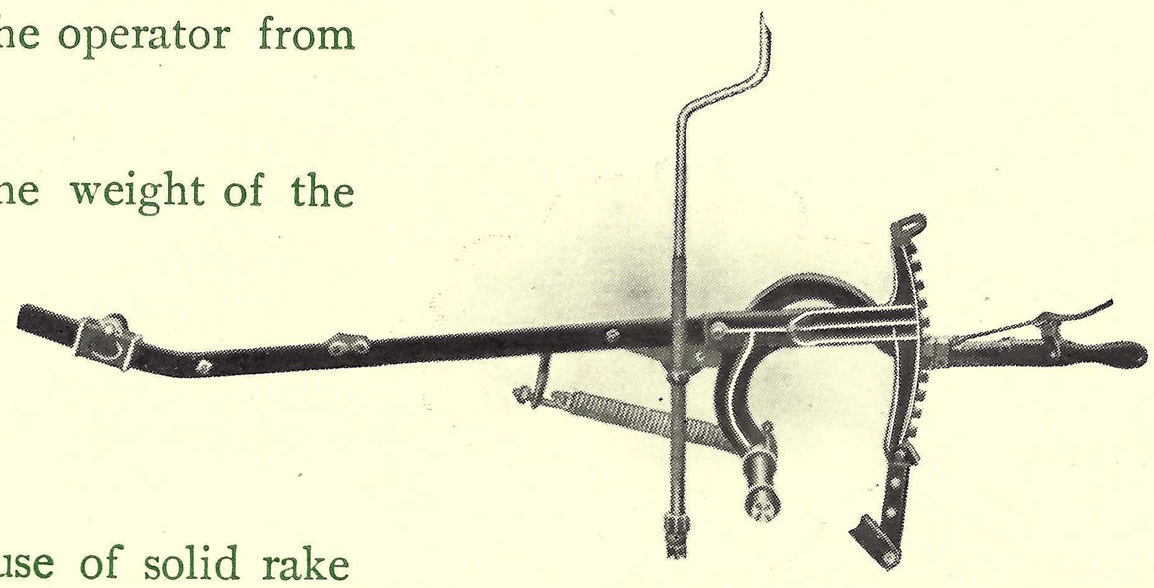
A steel trussed platform prevents sagging, and it can be folded securely for transportation. The sheet-steel back rail takes the place of the old curve board.

The "Continental" is very convenient to operate.



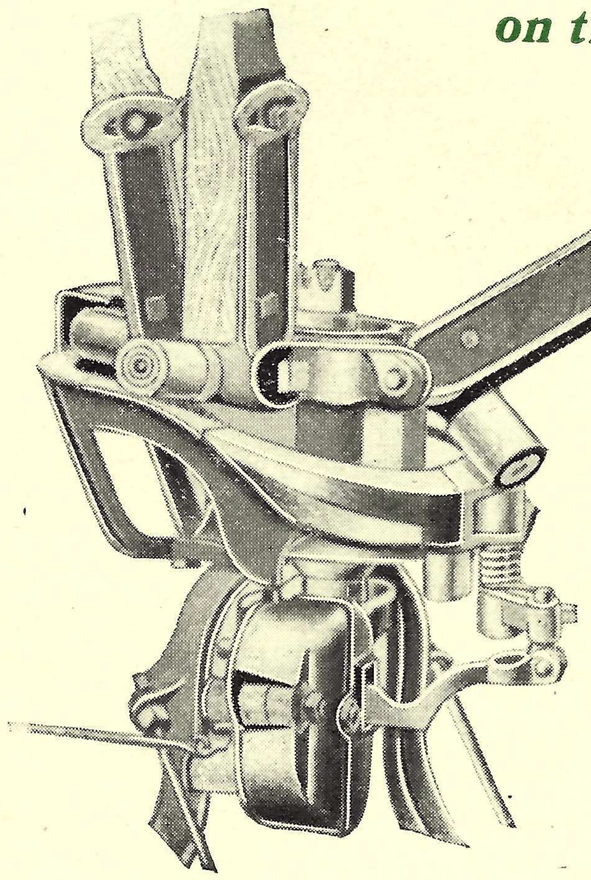
The levers are in reach of the operator from his seat.

A balance spring carries the weight of the machine in tilting.

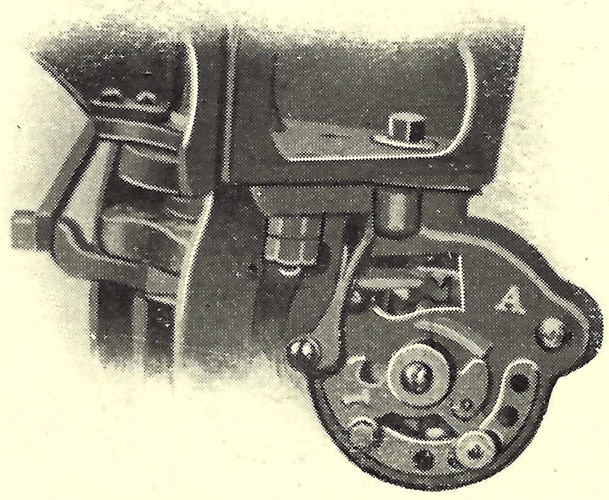


Winding of straw about the rakes is avoided by the use of a high rake standard, properly shielded, and by the use of solid rake blades. The rakes are parallel with the finger bar its entire length, and so discharge the gavel squarely, in the best shape for binding.

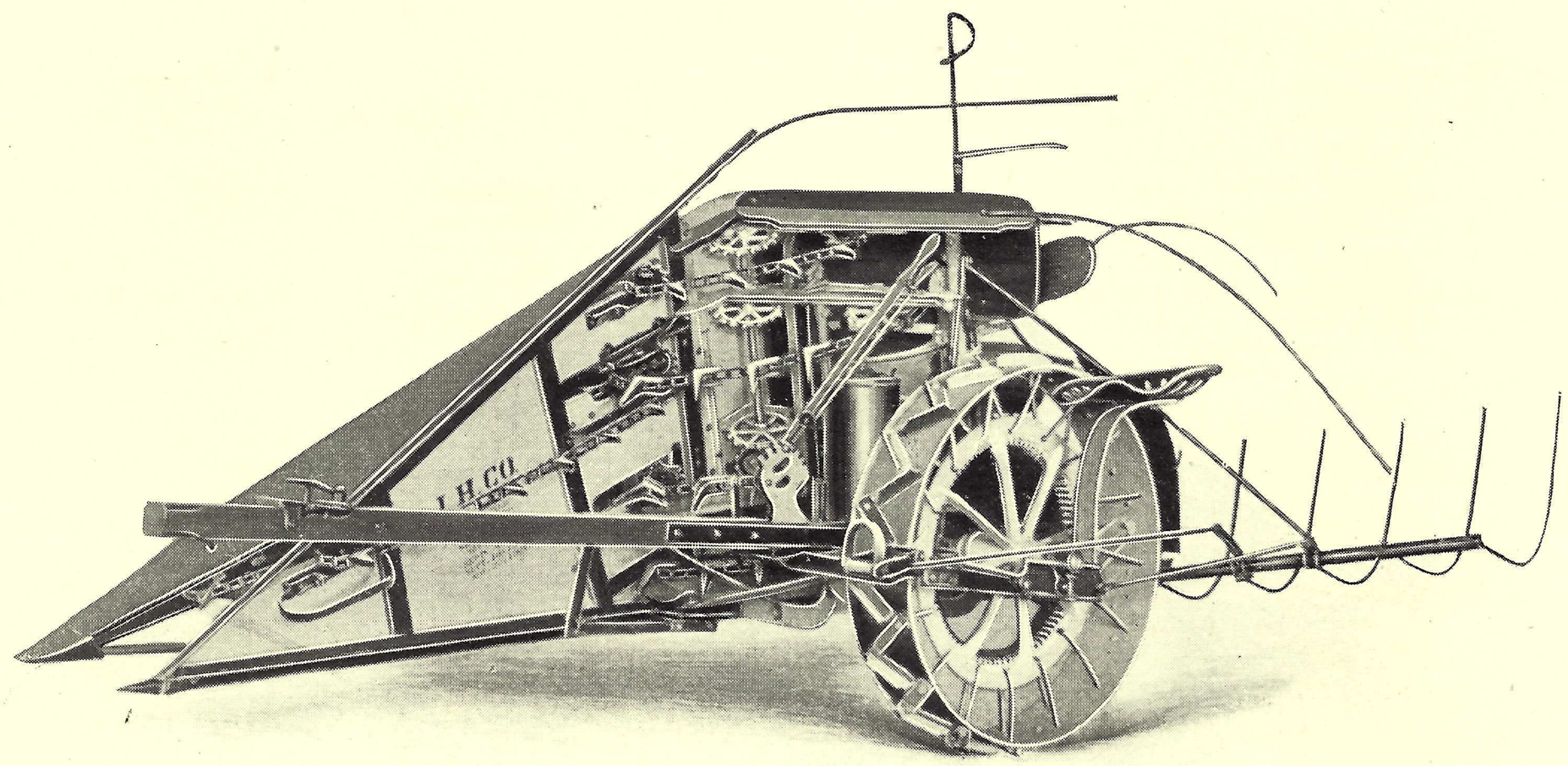
The cam is adjustable, forward and back, on the standard, for long or short grain.



Our automatic (or AA) trip enables the operator to set the rakes to trip as he pleases. They can be set to rake off every second, third, fourth, fifth or sixth rake. The operator can prevent the delivery of a gavel at any time in turning corners or in the grain.



Johnston Corn Binder



The acreage of corn has become a large factor in every farmer's plans and will be more so every year. What he sows, he surely must reap or lose his labor. The cutting and saving of his corn crop is certainly the most difficult work he will have during the year. He realizes that he needs the best *corn binder*. What he needs we make. He will best solve his problem in trying the *Johnston*. The end of each of seven seasons has found our machine No. 1 in this work.

The Johnston Corn Binder drives and cuts with greater power than any other corn binder.

Has the most power, saves the most power. Gathers all the corn and saves all. It has no side draft, no neck weight.

Its great power is gained through use of a 40-in. drive wheel—largest in use on any corn binder. Roller bearings in hub of wheel decrease draft.

The main frame is steel, in one piece, and wide enough to give stability and keep the machine in perfect balance. The complete machine is 5 feet 11 inches wide and can be worked in safety on side hills.

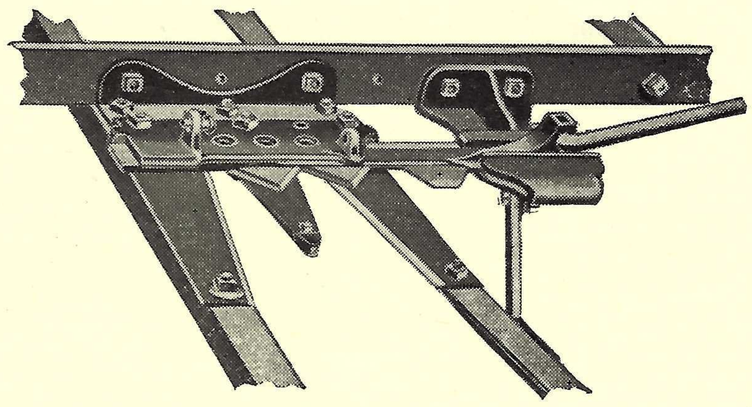


On the Farm of Ex-Governor Luce, at Gilead, Mich.



At Jackson, Mich.

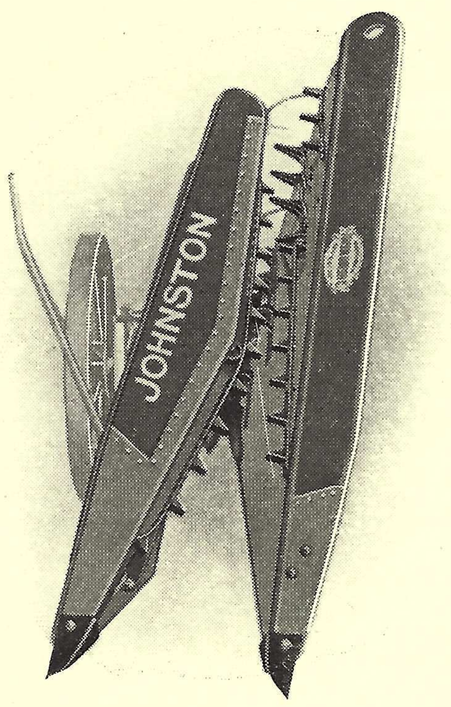
Johnston Corn Binder



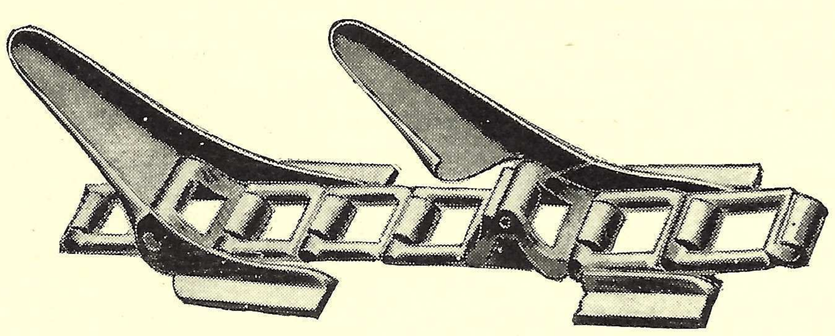
This machine cuts clean and without clogging.

We use two stationary side knives and a center knife, in addition to the regular knife.

The Johnston elevates and binds corn in a natural inclined position. Any other way requires more power. Conveyor chains, fitted with patent automatic fingers, carry the corn. The gathering chains pick up the row knocked down in opening up the field and handle tangled corn perfectly.



The Johnston does not have packers and is the only machine with automatic gates that prevent crowding the tier and so save the corn.



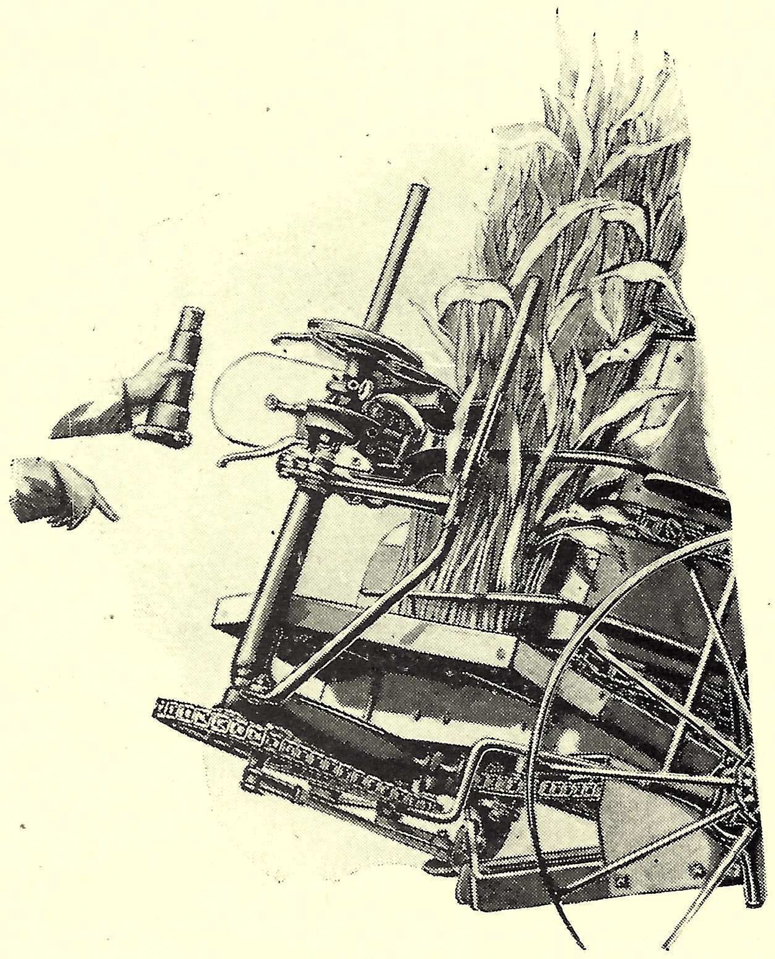
Has a 17-inch adjustment of the band—two inches higher and four inches lower than on any other Corn Binder.

Binds anywhere from 15 to 32 inches from the butts and places the band in the middle in long or short corn.

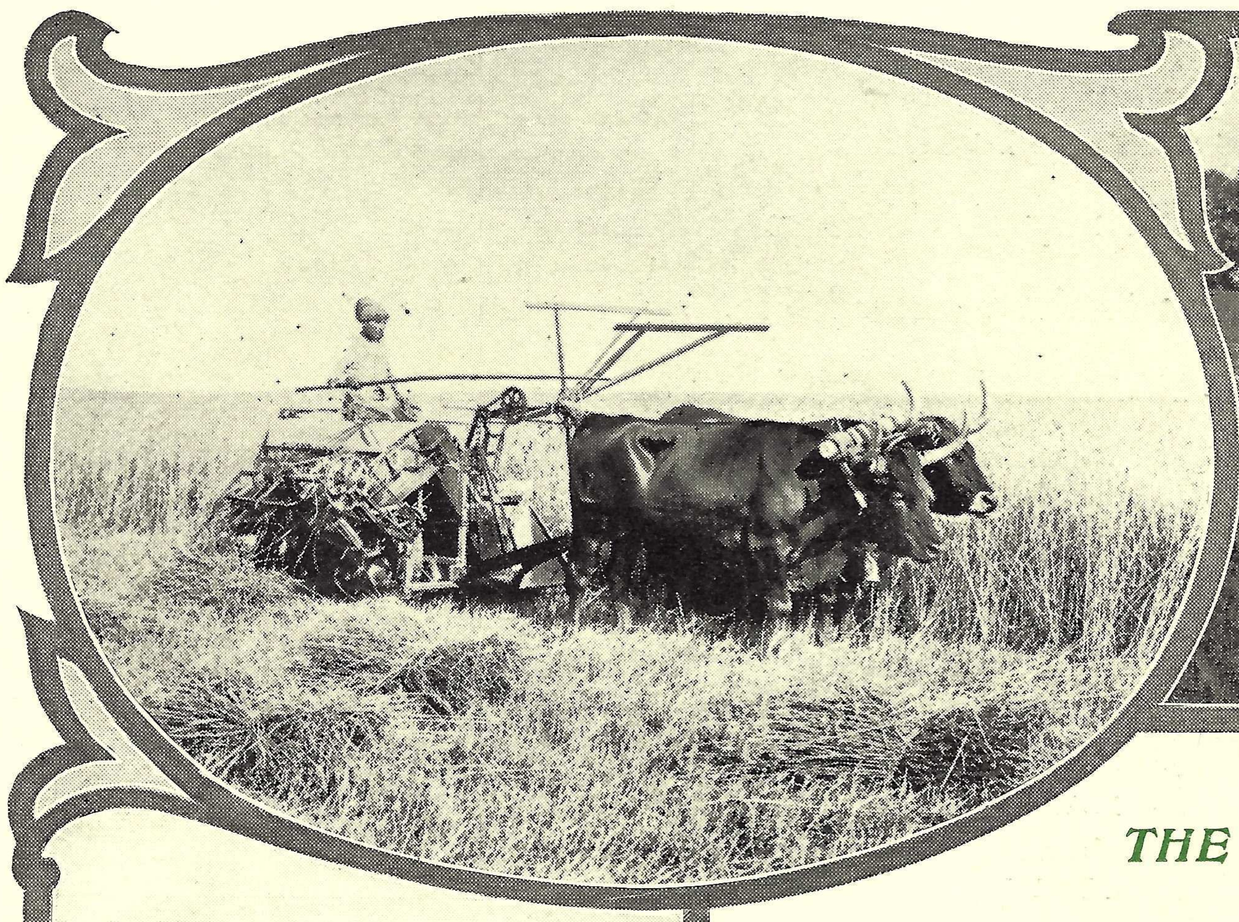
For very short corn, remove the tier frame extension, and lower needle and knotter. With adjustment of the table, you can then bind the short corn from 15 to 22 inches from the butts.

All levers are convenient to the driver from the seat.

The steel bundle carrier takes five bundles and trips from the seat.



Old "Continental" Binder in Portugal.



Johnston "Continental" at Cambrai, France.



THE ENGRAVINGS

show a very small part of the territory in which Johnston machines are used. However, they serve to illustrate the wide differences in country, customs and costumes. We have always built Johnston machines to meet the varied conditions of crop and country. We believe in reciprocity. When we accept a man's money, we give him the worth of it in a perfect machine suited to his needs.

"Continental" Binder in Virginia.





Johnston Binder in Holland.



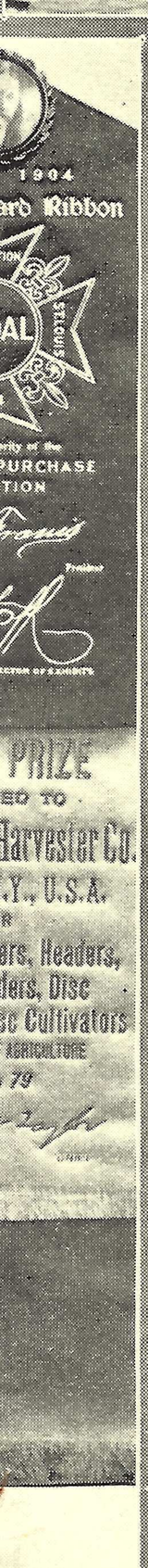
A Zebu-Ox and Johnston Rake and Mower in Indo-China.

Johnston No. 9 in Norway.



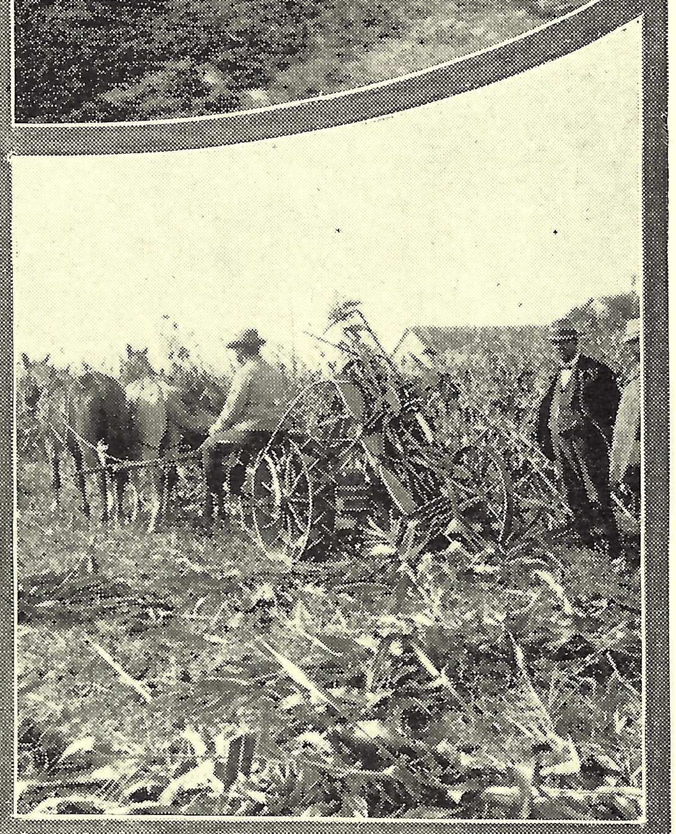
Johnston "Bonnie" in Denmark.



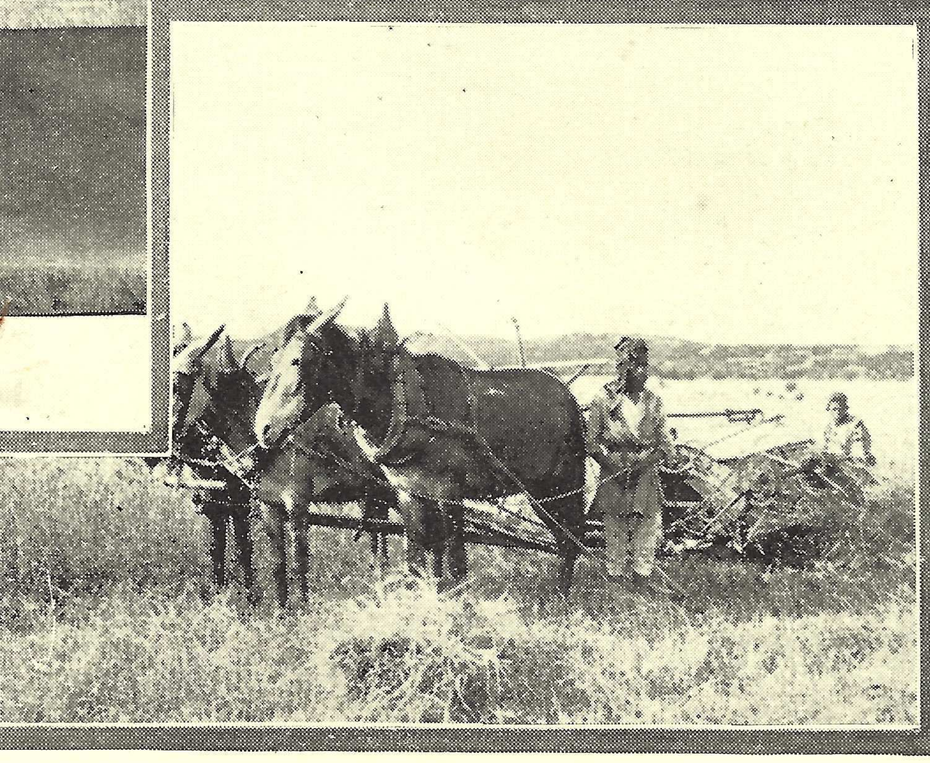


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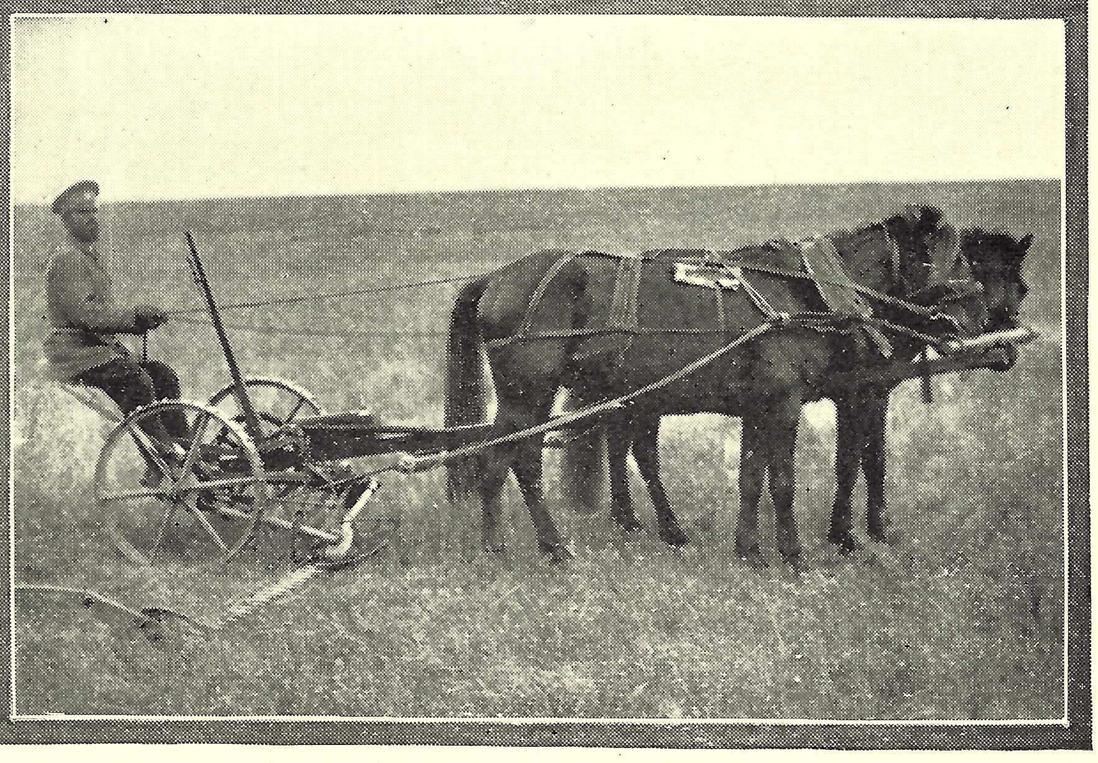
of this book you will see a particular point that stands out clear from the rest of the page. We hope that some, at least, of these points will stick in your memory long after you have finished the book. They are each one of the utmost importance to the buyer of farm machinery, and will, we believe, impress on you the working value of *Johnston* machines.



Johnston Corn Binder at Salem, N. J., After a Storm.



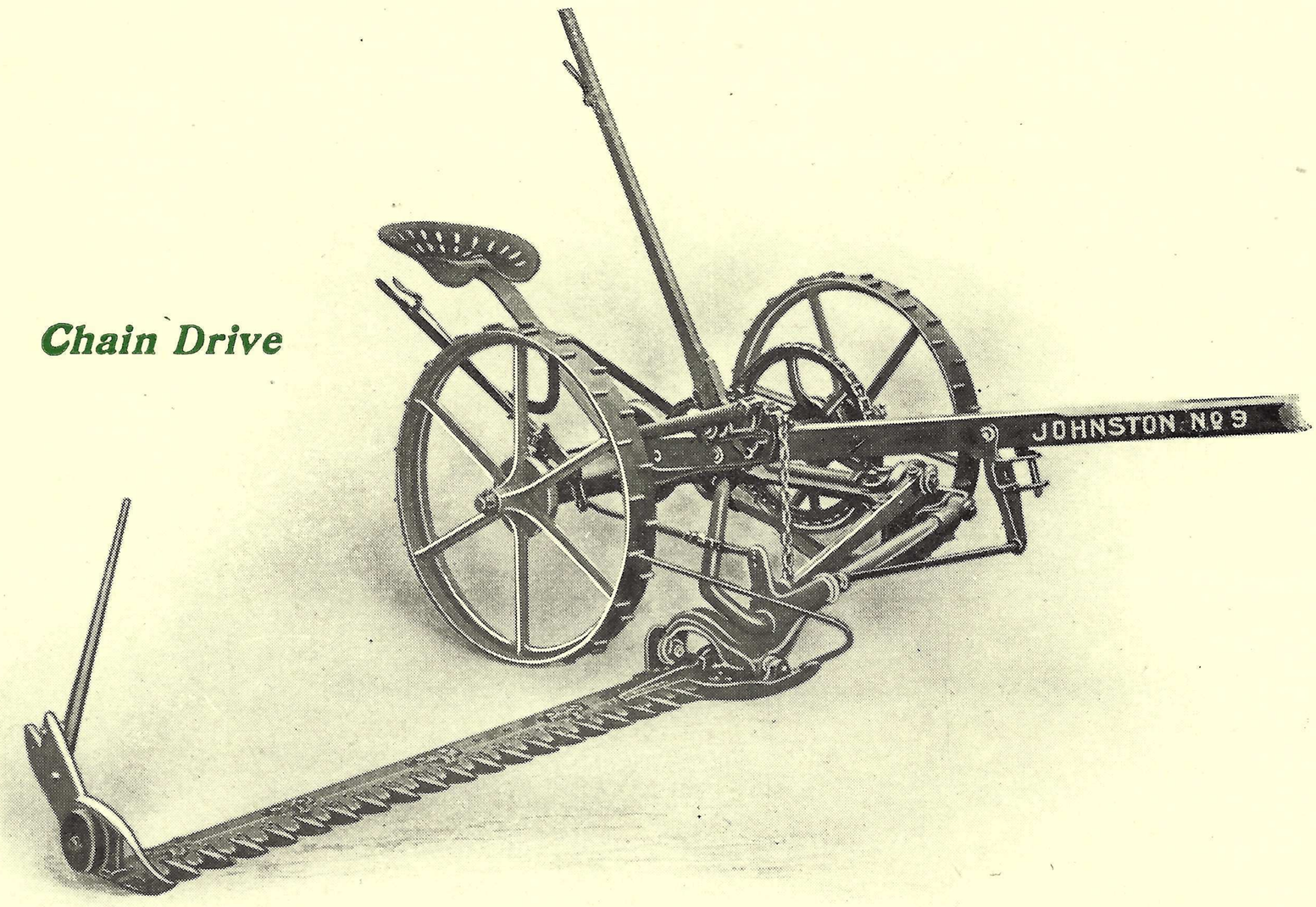
A "Big Chief" in Tunis.

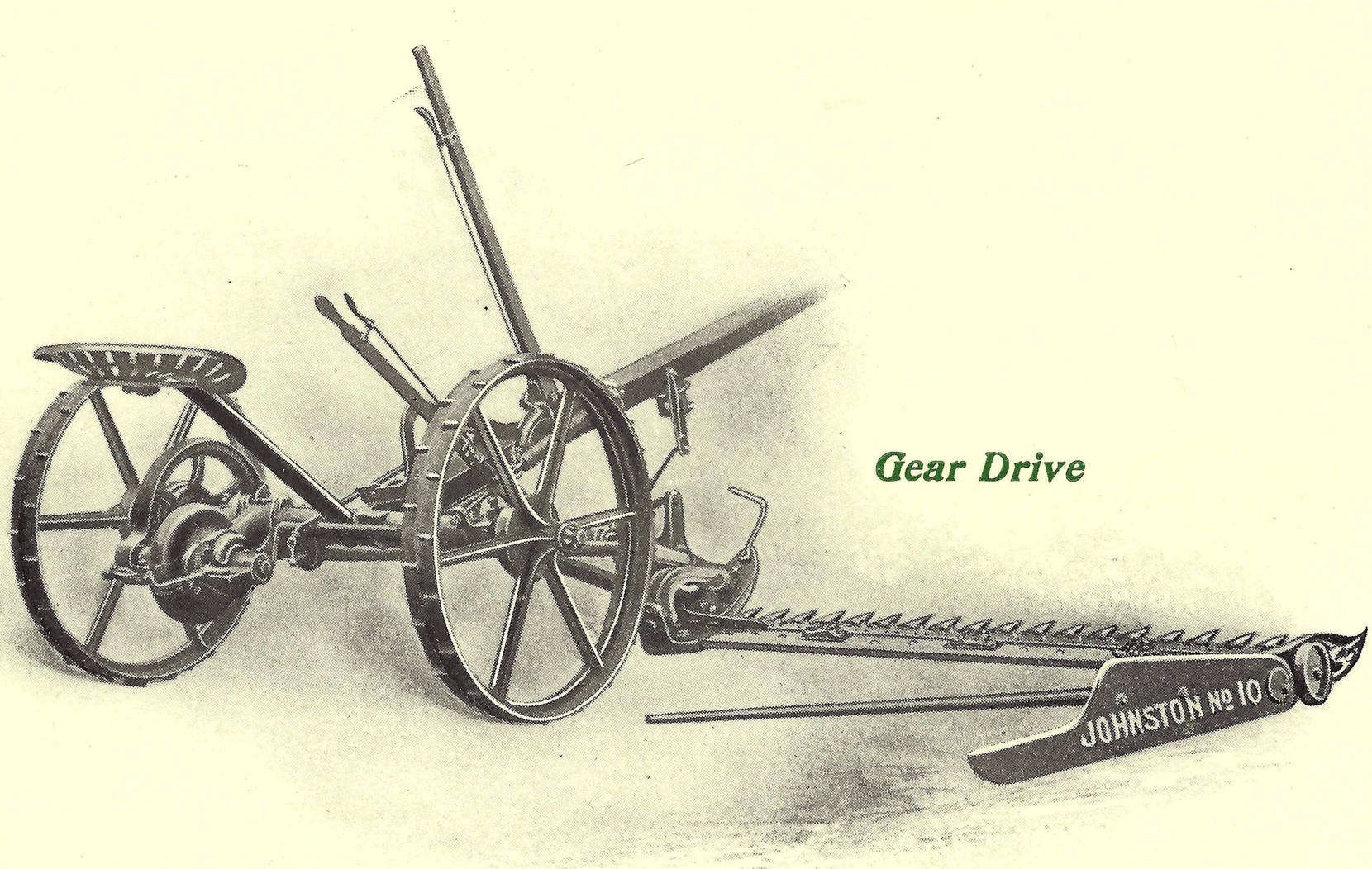


Johnston Mower at Orenburg, Russia.

Johnston Mowers, Nos. 9 and 10

Chain Drive



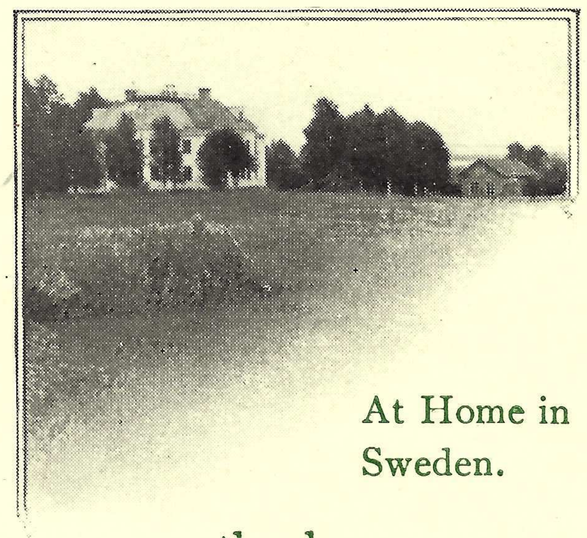


Gear Drive

Sizes: 4 feet 6 inches, 5 feet, 6 feet.

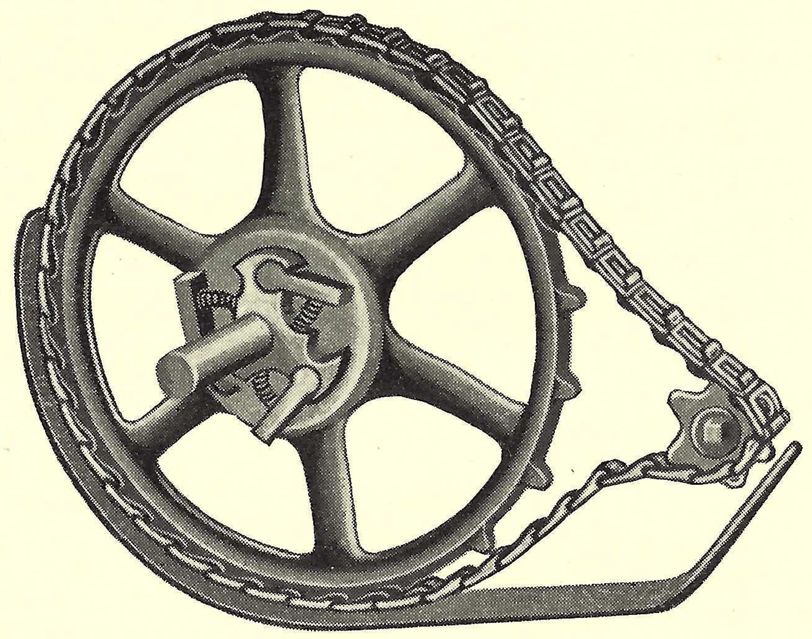
They have power, strength, durability.
They are light draft, even draft, light running.
They cut fast and clean.

Johnston Mowers, Nos. 9 and 10



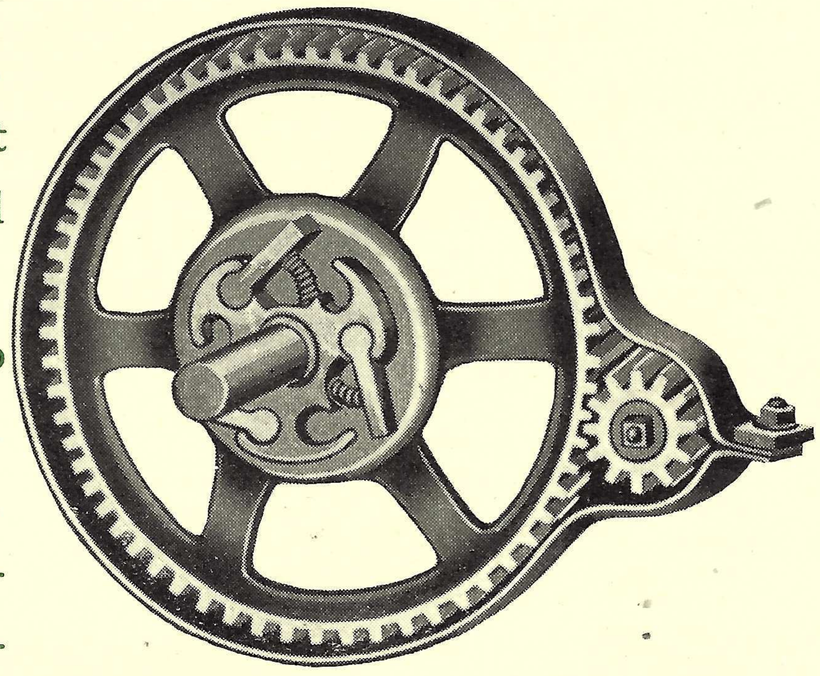
At Home in Sweden.

Johnston Mowers are built high for power, and wide for balance and even draft. They draw from the center, run smoothly, cut a clean swath, are convenient to operate and they wear well. They handle equally well the light and the heavy crop, on smooth or rough ground. For two horses,



we offer you the choice of Chain Drive No. 9 or Gear Drive No. 10,

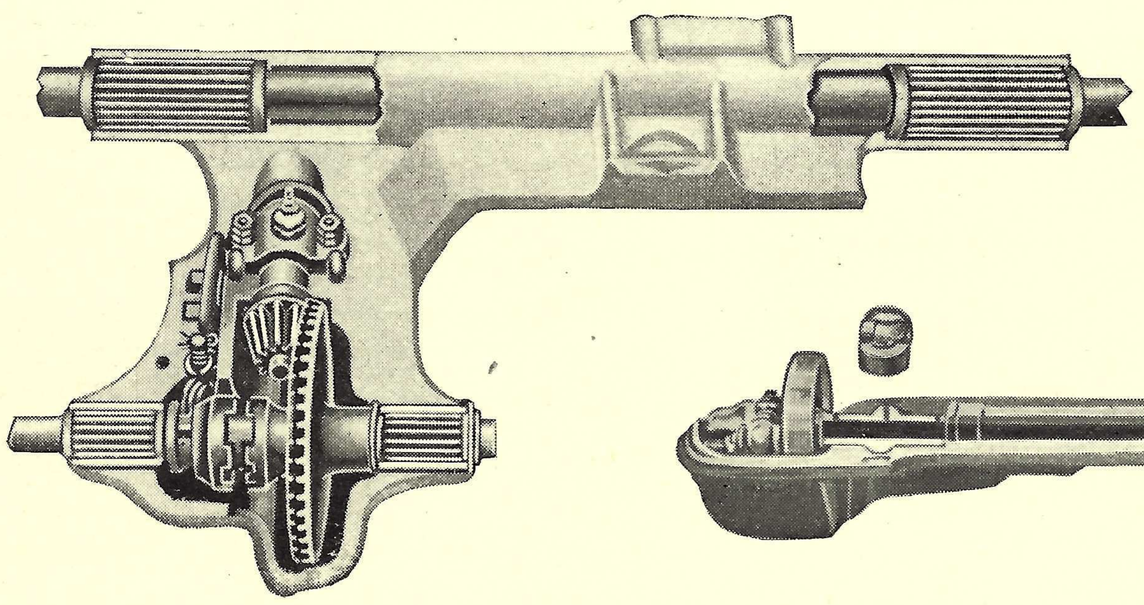
both having the same general features of design and construction. The No. 9 has special malleable chain and adjustable tightener; the No. 10, a simple, perfect system of gearing, that runs very quietly. Chain and gear are well shielded.

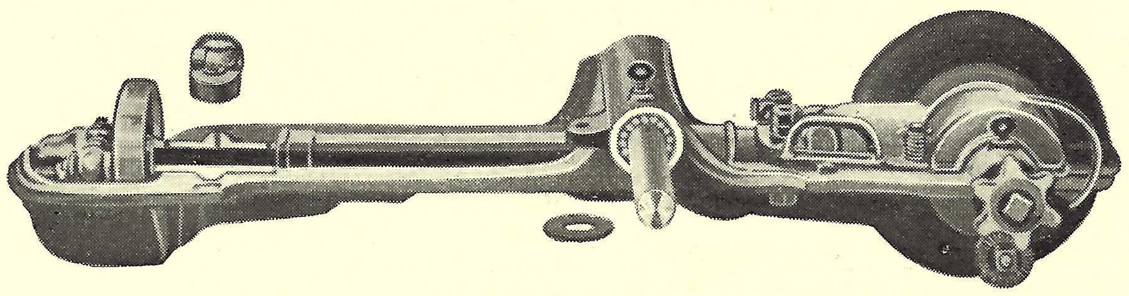


The main frame is cast iron, designed to stand the strain of hard work and rough ground. It furnishes a perfect support for all bearings. The main axle and bevel wheel shaft are provided with roller bearings. They reduce friction and make the draft lighter.

The use of three pawls in each wheel prevents lost motion in starting. The long crank shaft runs in a horizontal position, retains oil on the bearings and does not bind.

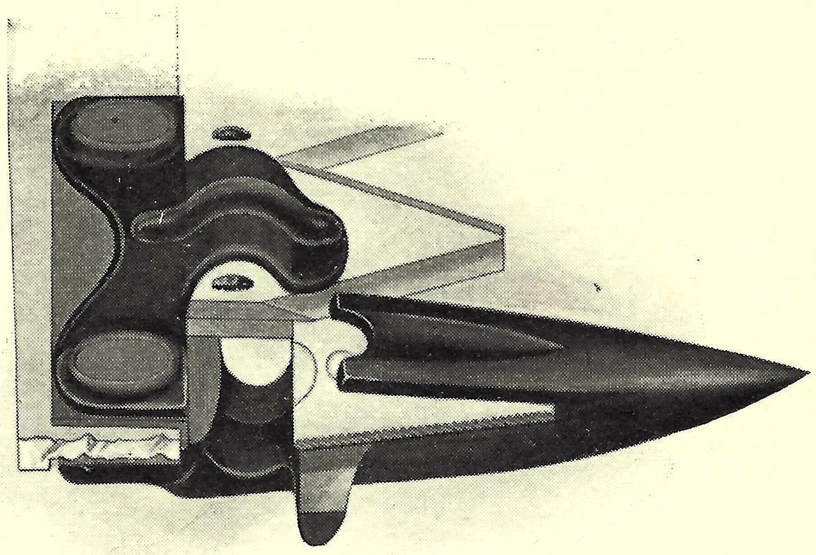
The use of separate crank boxes lessens the cost of repairs. The boxes are self-aligning.

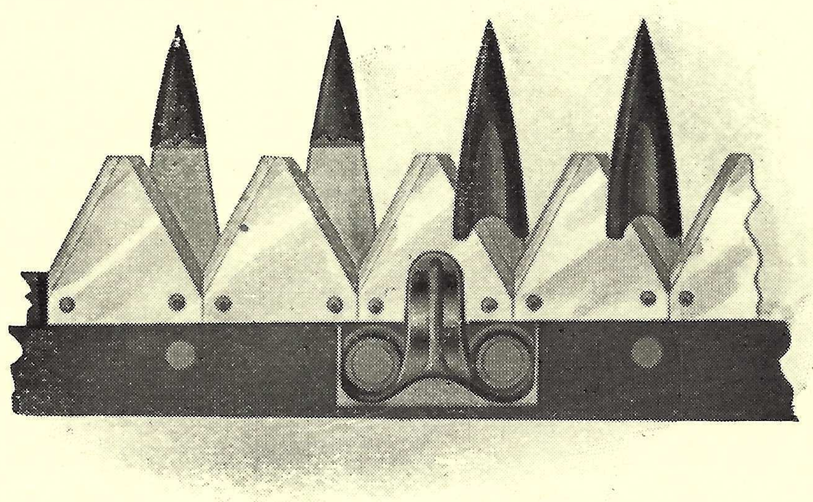


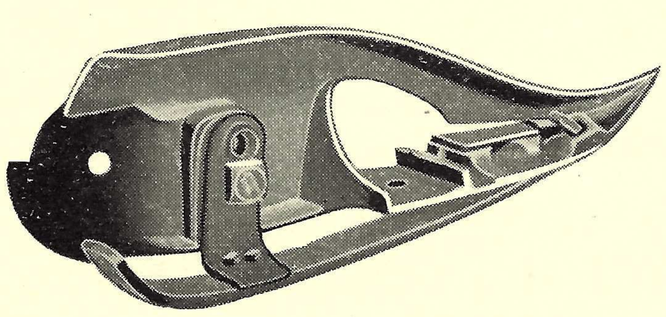


Johnston Mowers, Nos. 9 and 10









Our long wood pitman has the least possible friction. Malleable connections are used at each end, and are fastened and adjusted at knife and crank ends by bolts having ratchet nuts, held tightly in place by steel lock springs. The cast pitman box is lined with babbitt metal and oil feeds from a separate part of the box. The pitman has a direct push and pull, and does not bind.

The Johnston cutting apparatus does clean, perfect work. The finger bar is made of cold-rolled steel, beaded on the under side. The guards are fitted with serrated steel plates and are fastened on the under side of the bar with countersunk head bolts that are flush with the top of the bar.

This construction leaves the bar smooth on top with nothing to catch the grass.

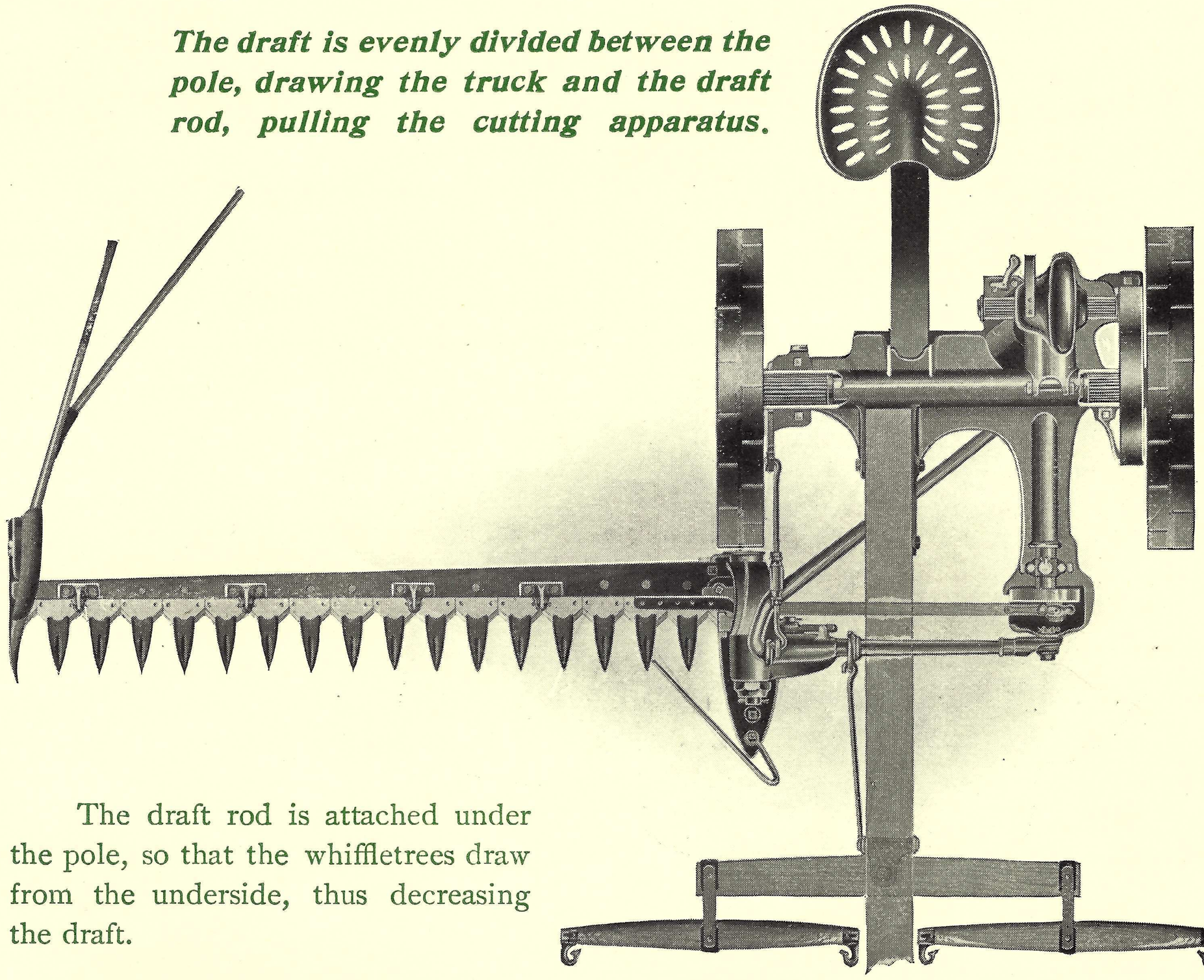
We manufacture our own knives and guard plates, and guarantee satisfactory service. The knife sections extend back of the knife-back and bear on adjustable steel wear plates, always keeping a perfect cutting line. The section rivets have oval heads top and bottom, that force out the grass and weeds through the openings between the guards.

A steel sub-sole is furnished, if desired, instead of the outer shoe wheel. The sub-sole is adjustable to suit height of stubble.

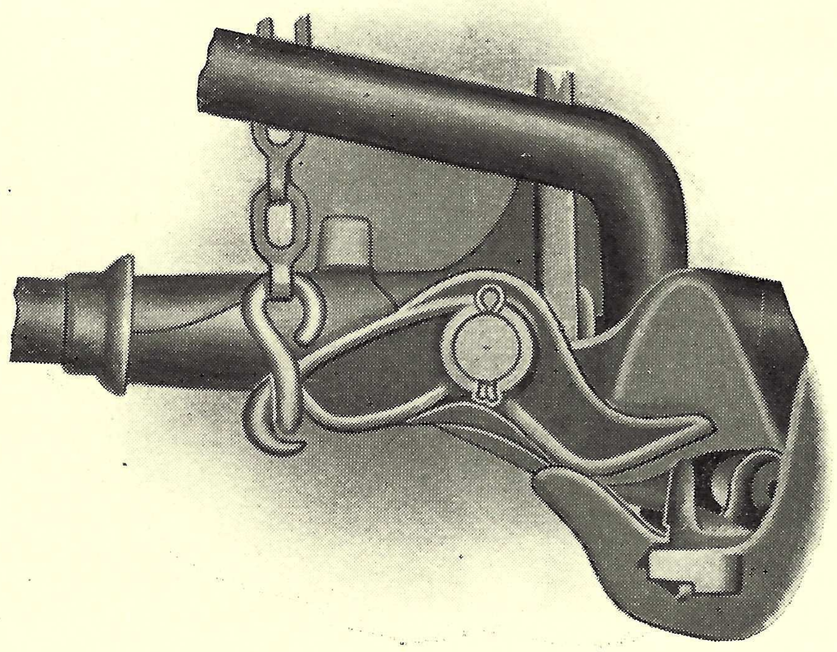
Johnston Mowers, Nos. 9 and 10

The engraving below shows a plan view of either mower and your attention is called especially to the following important points indicated therein, viz:

The draft is evenly divided between the pole, drawing the truck and the draft rod, pulling the cutting apparatus.



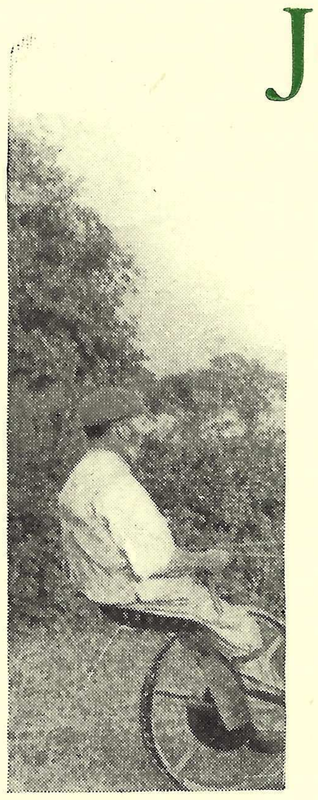
The draft rod is attached under the pole, so that the whiffletrees draw from the underside, thus decreasing the draft.



Eveners and whiffletrees fitted with steel chafing plates and improved hooks—the best on the market; the pitman is always in line with the knife; the steel push bar has its ends hinged in nearly parallel centers, which prevents binding in the joints when the bar is raised. The wide push-bar joint reduces the wear and the bar is always held in perfect line.

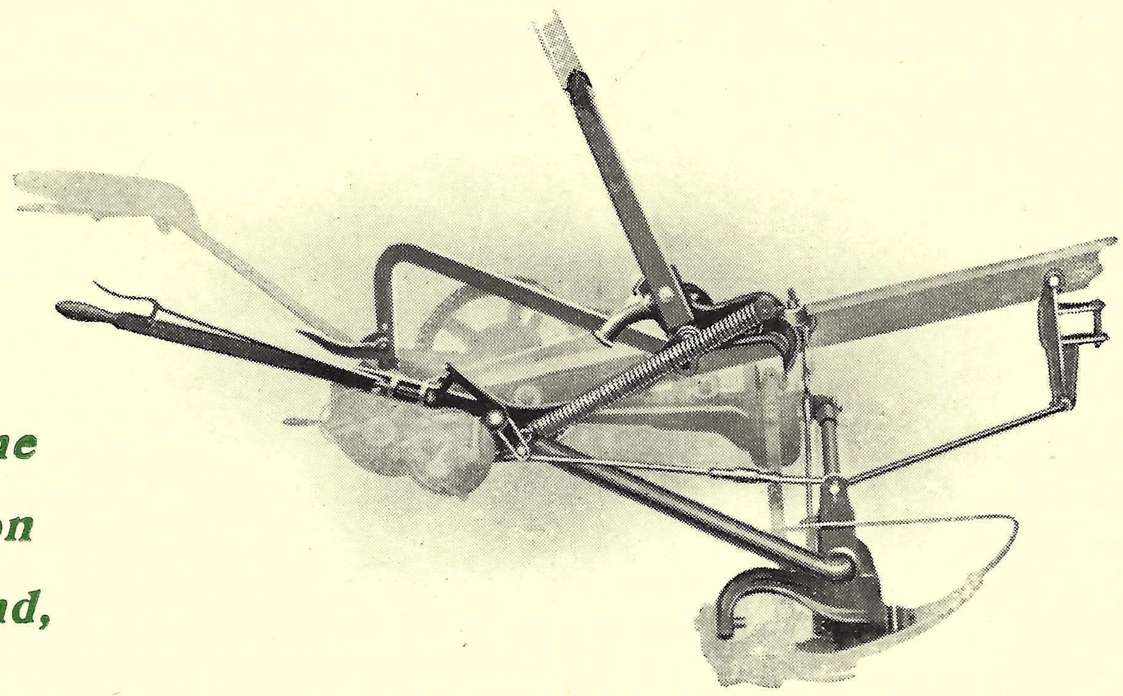
The raising gag furnishes the simplest and best means of holding the bar when raised to pass obstructions.

Johnston Mowers, Nos. 9 and 10

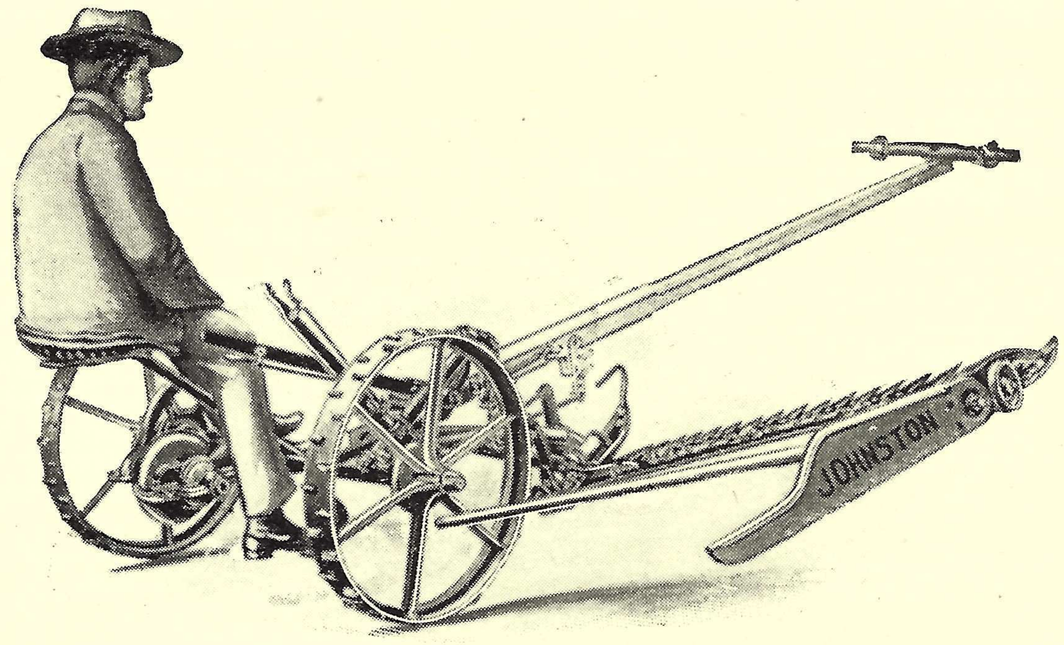


An Englishman on the seat of a Johnston Mower. Knows what he wants and gets it.

The first two engravings on this page show the raising levers and spring at rest, and in action while the mower is at work in the field.

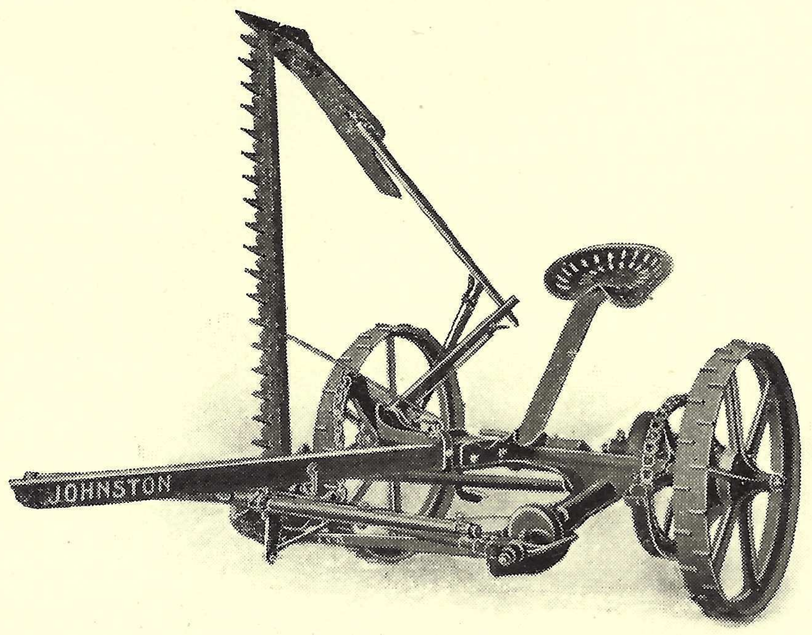


In turning corners, passing obstructions, avoiding stone or working on uneven ground, the raising lever, aided by the foot lever, raises the bar easily to the necessary height and angle, the spring carrying the weight of the push bar and cutting apparatus. Convenient tilting and raising levers give the best possible adjustments, and adjusting hooks regulate the tension of the raising spring and take up the wear in the chain.



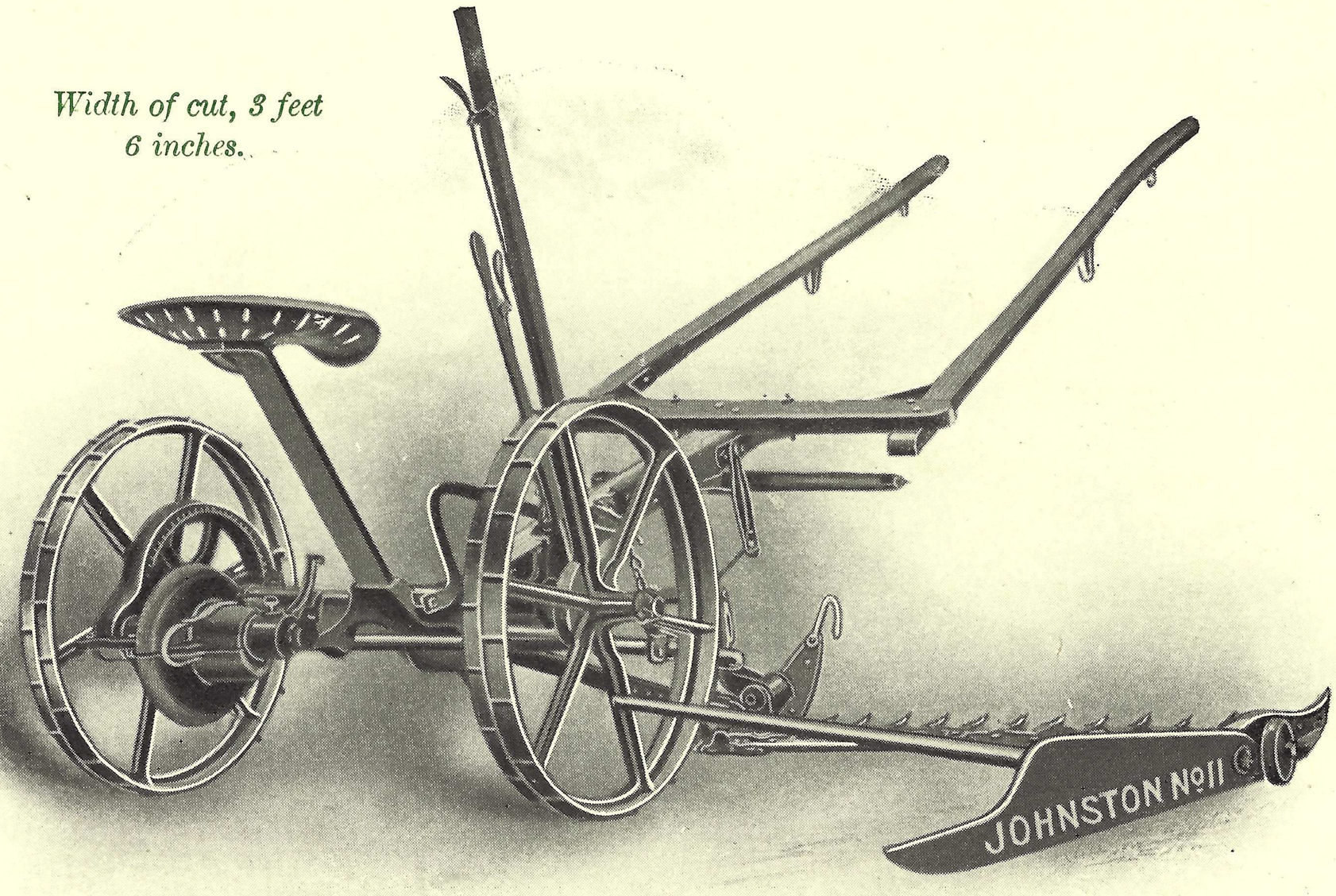
Note, also, adjustable tilting lever connection, made in two parts with turnbuckle to connect them.

For transportation, the bar folds readily and is securely fastened in position by the bar support through hole in the finger bar, and is held there by a crank nut.



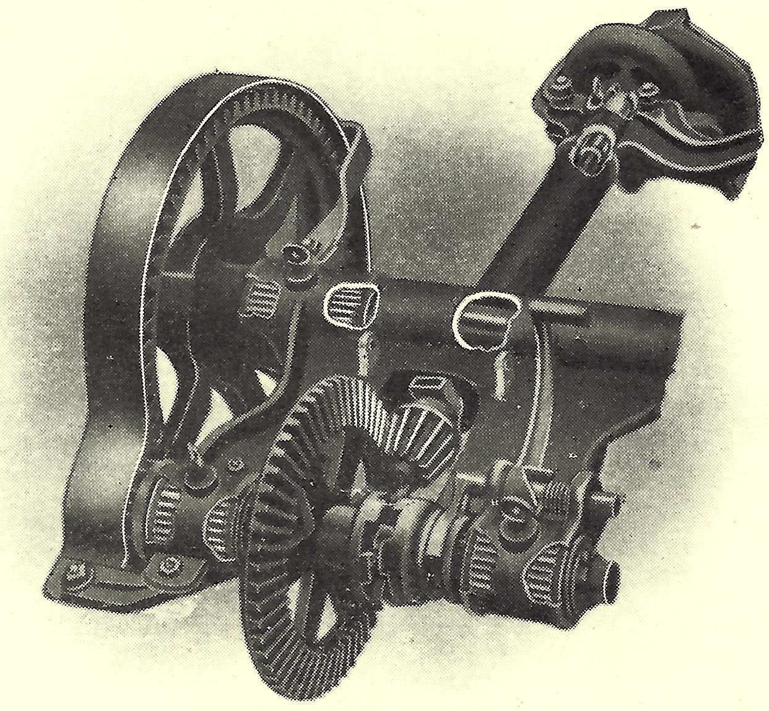
Johnston One-Horse Mower, No. 11

Width of cut, 3 feet 6 inches.



The new one-horse mower, gear drive, built on the same lines as the No. 10 Mower. Intended for use in parks, on extensive lawns, in orchards, on small farms. Is light draft, convenient, economical, up-to-date.

Your attention is especially called to the new frame construction.



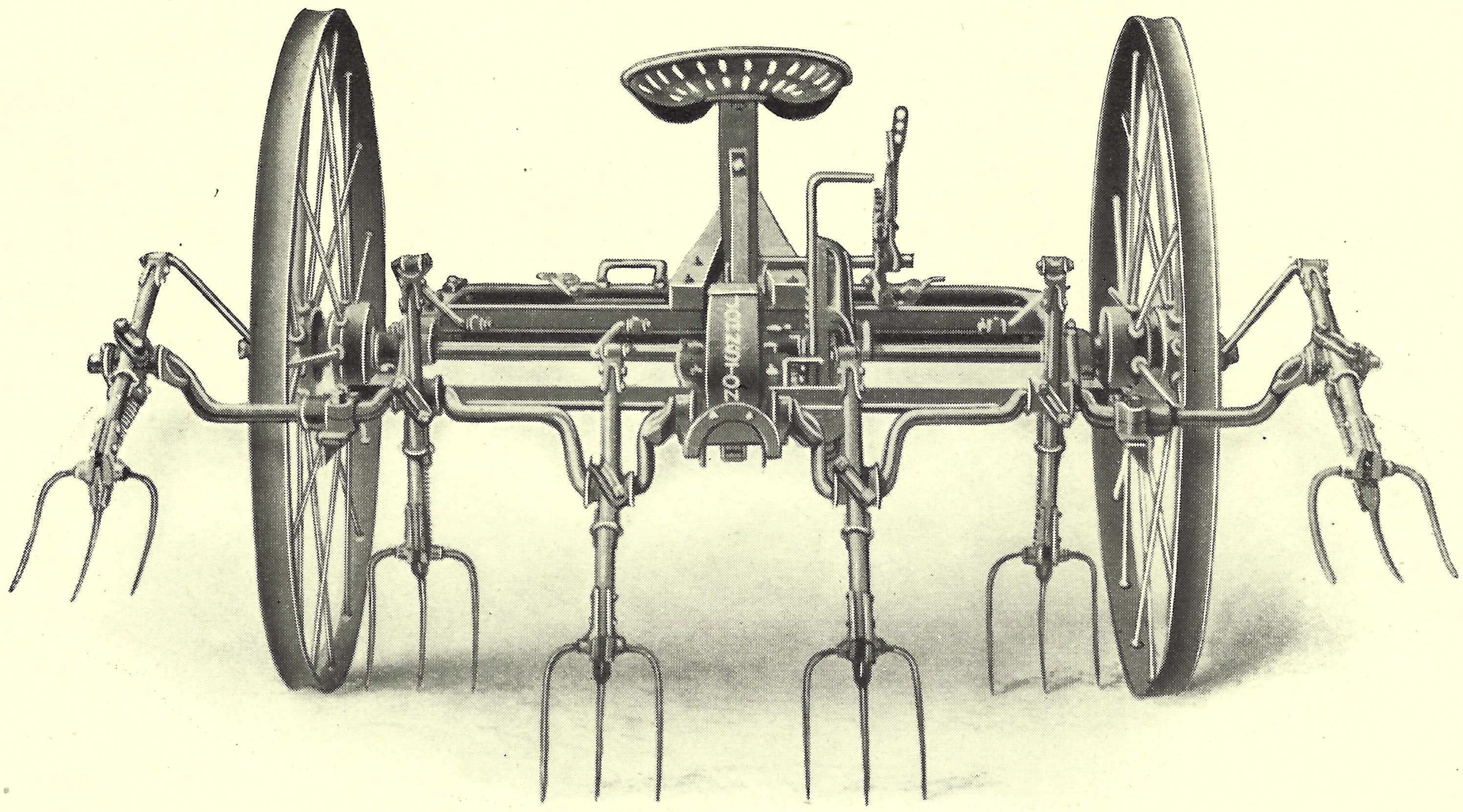
The bevel gear shield on under side and the crank wheel shield on front end are detachable. This materially lessens the chance of breakage and expense in case you do break one of these parts.



At Palermo, Sicily.

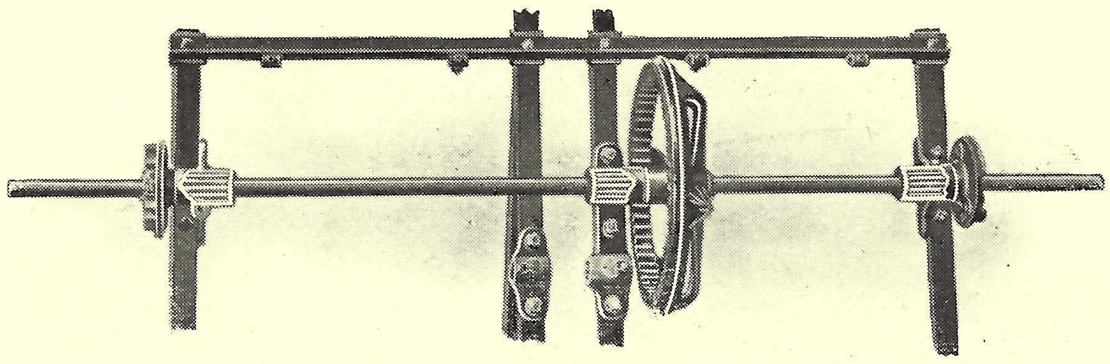
Note, also, brass bushing for wheel end of crank shaft, separate box at pinion end, horizontal crank shaft, roller bearings for main axle and bevel wheel shaft, three pawls in each wheel, long wood pitman, convenient foot lift and tilting levers.

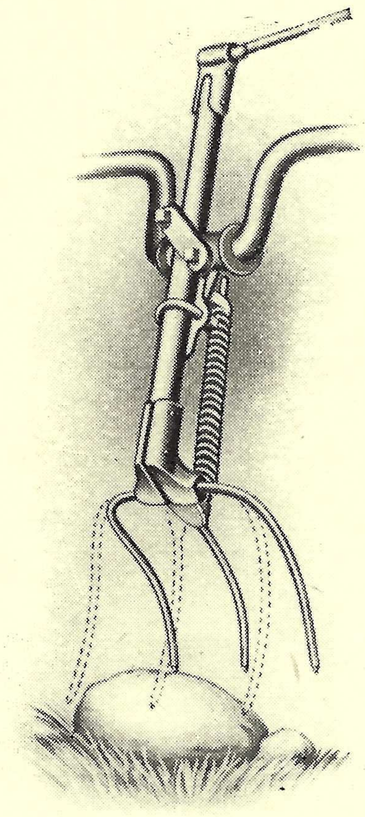
Johnston Steel Hay Tedder



Hay tedders cannot make good crops, but they can and do save good crops that otherwise would be half ruined. The heavy crops must be stirred up to be properly cured.

A steel machine of "parts." Steel angle main frames, front and rear; steel wheels with double hubs, staggered spokes and channel-steel tires (concave side out, giving increased power). The steel main axle is provided with three sets of roller bearings. This reduces the draft. Power is applied from both wheels at the same time, to the drive chain in the center. This makes the draft even.



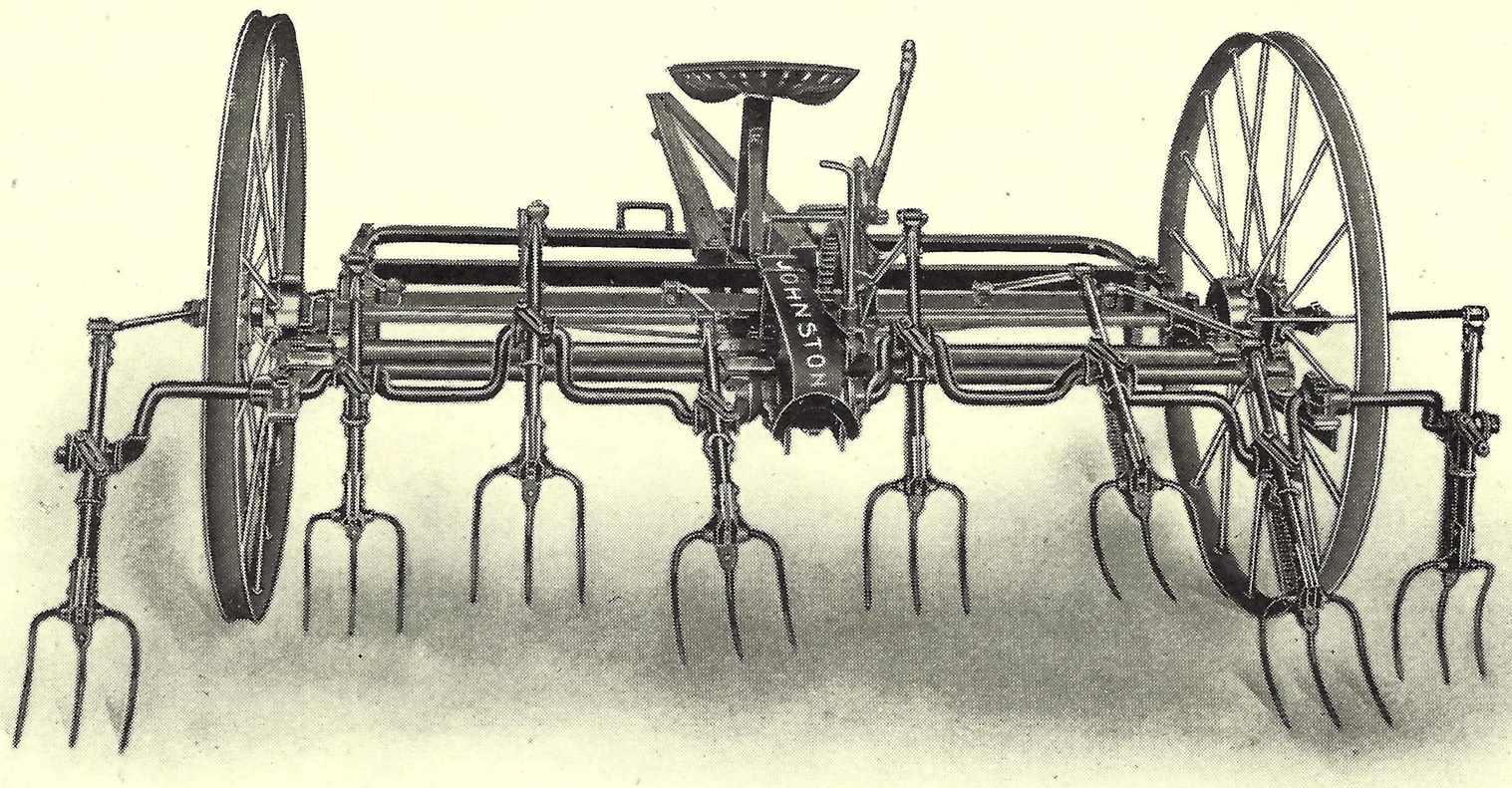


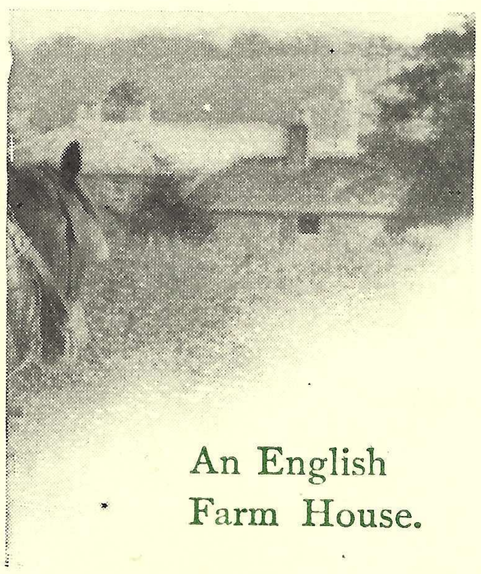
Crucible steel forks, spring tempered, with three tines in one piece, and spring trip.

Simplest-constructed fork on the market and the most durable.

Trips properly every time. Outside forks stir the hay that the wheels pass over. A tilting lever adjusts the level of the frame and controls the height at which the forks work. A relief spring carries the weight when tilting.

Johnston Steel Hay Tedder





An English
Farm House.

On the eight-fork machine we use steel pipe construction at the rear of the main frame. *This holds the frame and cranks in line* in spite of the greater strain caused by the eight forks working on the wider frame.

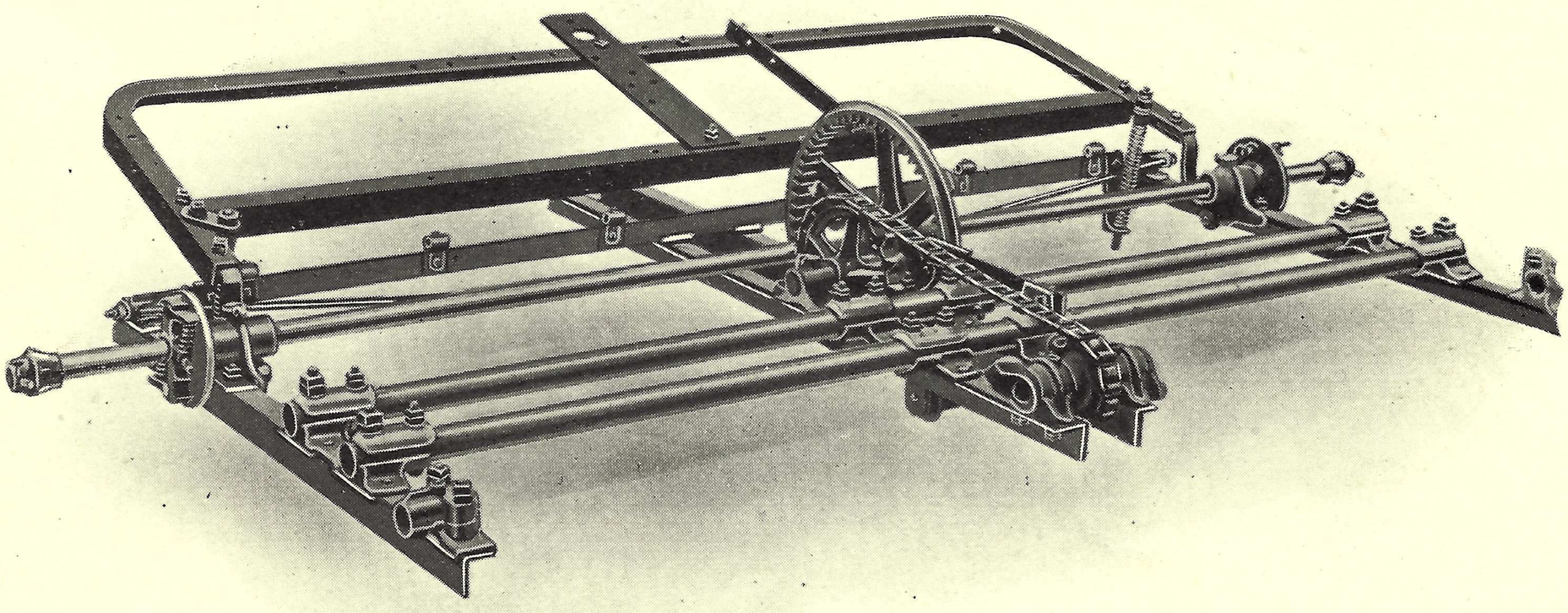
Note, also, steel truss at front end of the main frame and the cushion springs that save frame and driver.

Combination pole and shafts, for one or two horses, furnished with each tedder.

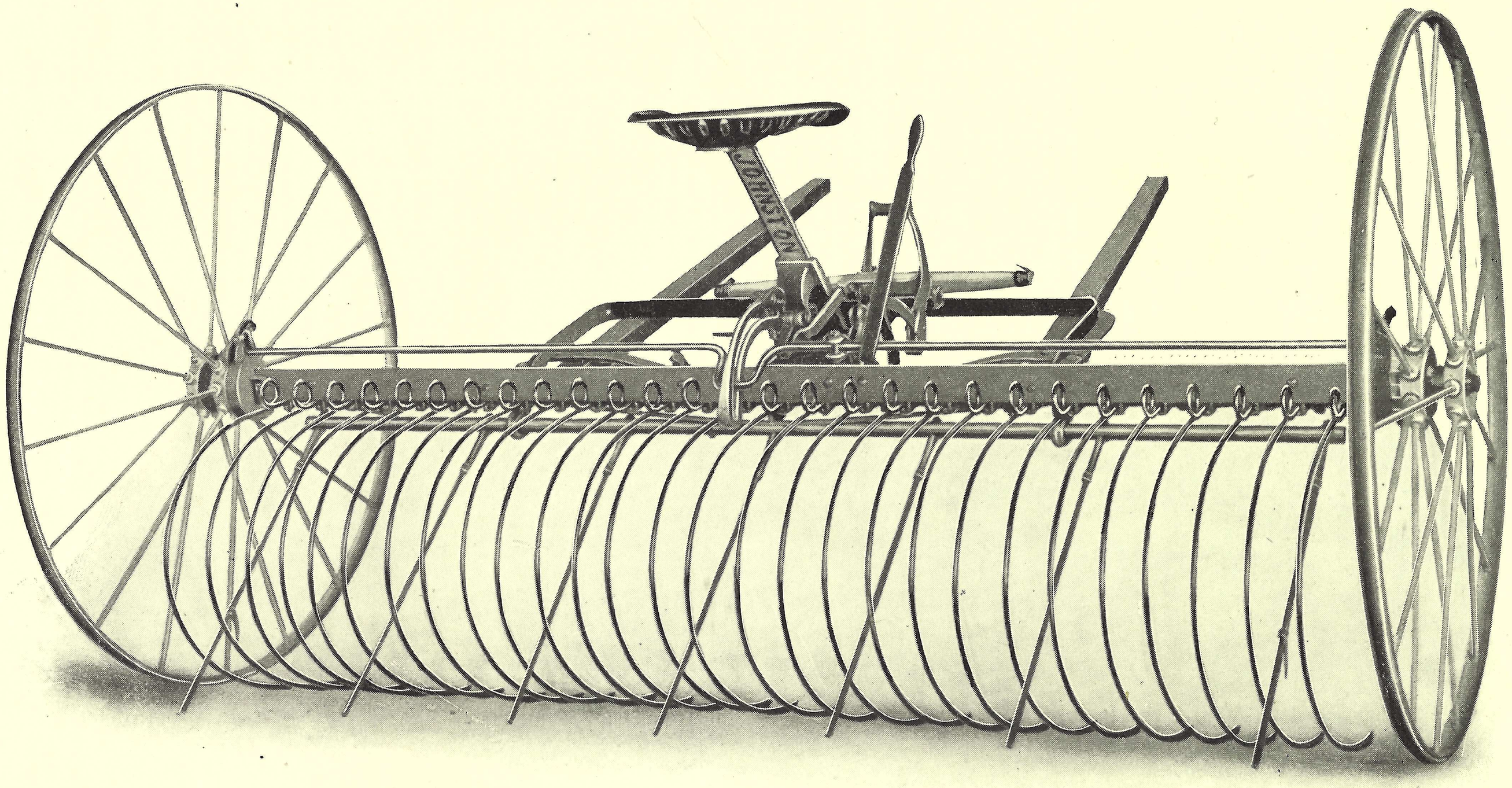
The driver is assured of a comfortable seat and convenient levers.

The owner is assured of an economical machine and a crop that brings its highest possible price on the market.

Sizes: 6-Fork, 8-Fork.



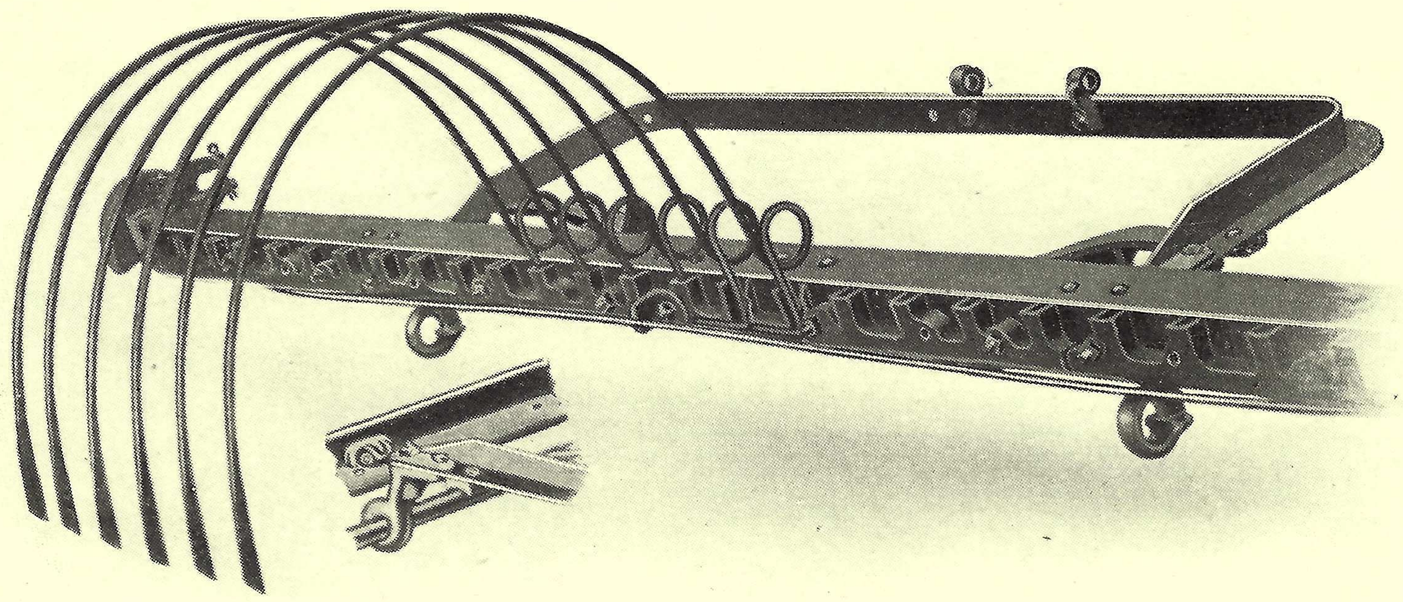
Johnston Steel Rake



Sizes: 8 feet, with 24 teeth; 9 feet, with 22 or 28 teeth; 10½ feet, with 32 teeth; 12 feet, with 38 teeth.

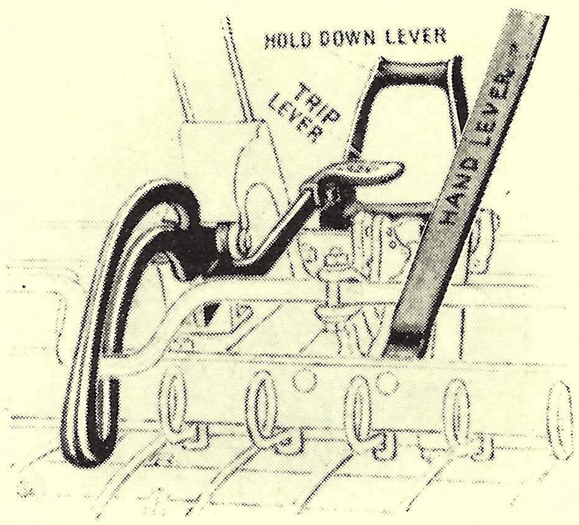
Light draft. Even draft. Works well. Wears well. Built for one or two horses, fast or slow walking horses.

Johnston Steel Rake



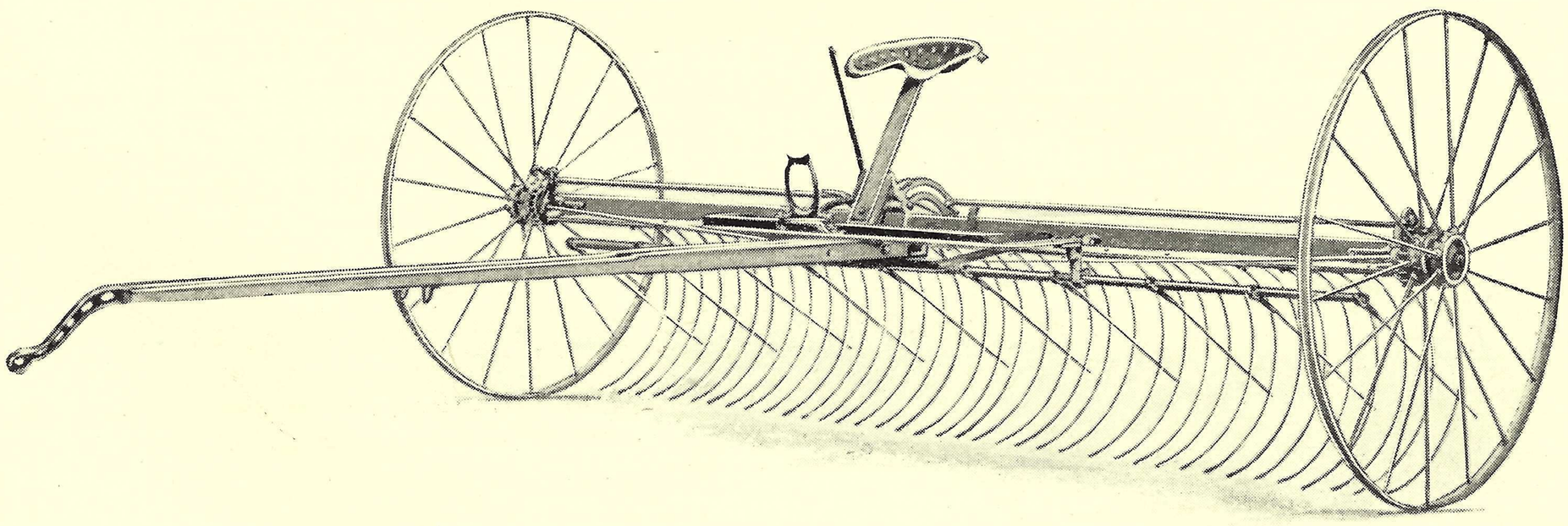
Steel construction makes the Johnston Rake light, but with weight enough and strength enough to insure durability, and as good work on rough as on smooth ground. Cleans the ground, gets all the hay.

The features include: Double-hub steel wheels; angle-steel rake head and main frame, both steel trussed and securely hinged; long, flat-pointed, steel teeth, interchangeable, have free action, hang low and lift high. The detachable tooth holders cost little to replace. Steel cleaners pack the hay and prevent it from rolling.



Johnston Rakes dump with a one-piece rod, from both wheels at once.

The driver sits in comfort and operates his levers from the right-hand side. The rake head is well balanced, so that the weight of the driver assists in working the rake. Combination shafts and pole, for one or two horses, furnished with each rake.



Johnston "Continental" Disk Harrows

No one can deny that farming has become a science. The preparation of the ground for the sowing of the seed and the growing of the plant is the most important part of the science. Nothing prepares the ground as well as a disk harrow. They pulverize thoroughly. They let in the sun and turn out the dampness.



Corn Land "Before and After Taking" Johnston "Continental."

If you do not already own one, try one this year. Work over your plowed land, your corn fields. Try it on sod. We have been making disk harrows for sixteen years. During that time, we have retained three essentials to the manufacture of a perfect disk harrow: perfect disks, direct draft, center bumpers.

Many improvements have been made, all in three important directions: reduced draft, strength and simplicity in construction, convenient operation.

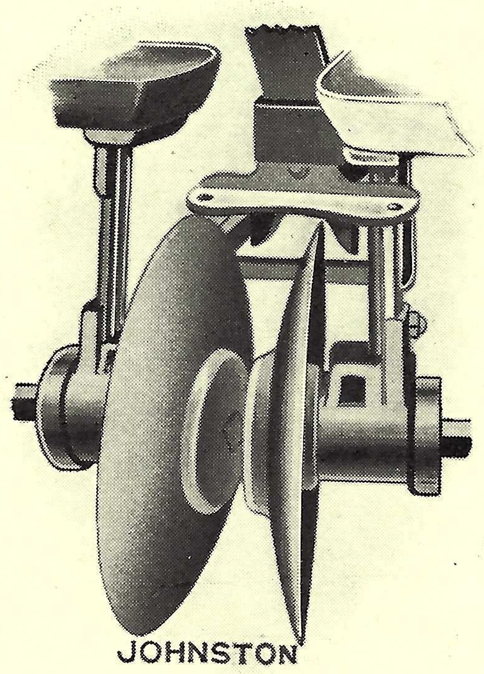
Johnston "Continentals" do not have a heavy frame. Tubular steel cross bar and steel braces are used. Ordinary pole for two or four horses.

Set-over pole for three horses. There is no side draft.

The gangs draw and cut evenly.

Johnston "Continental" Disk Harrows

Anti-friction center bumpers at the inner end of each gang, revolve in the direction in which the soil is turned and simply roll against each other.

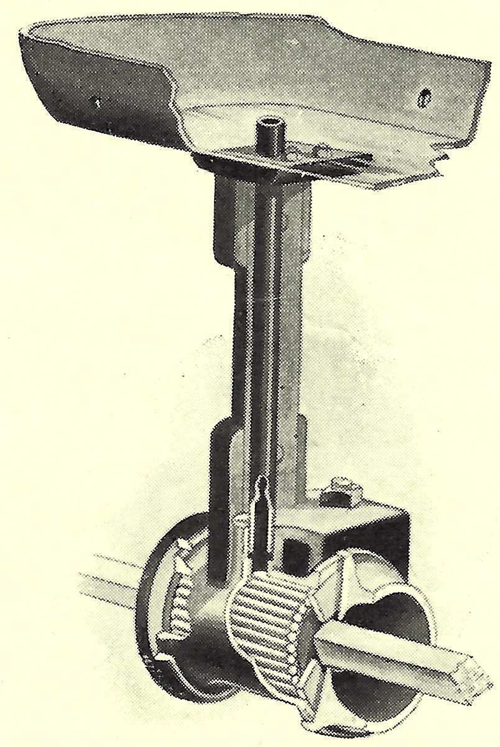


These bumpers prevent friction and relieve the end pressure.

Ball bearings used by other manufacturers for this purpose do not decrease the draft.

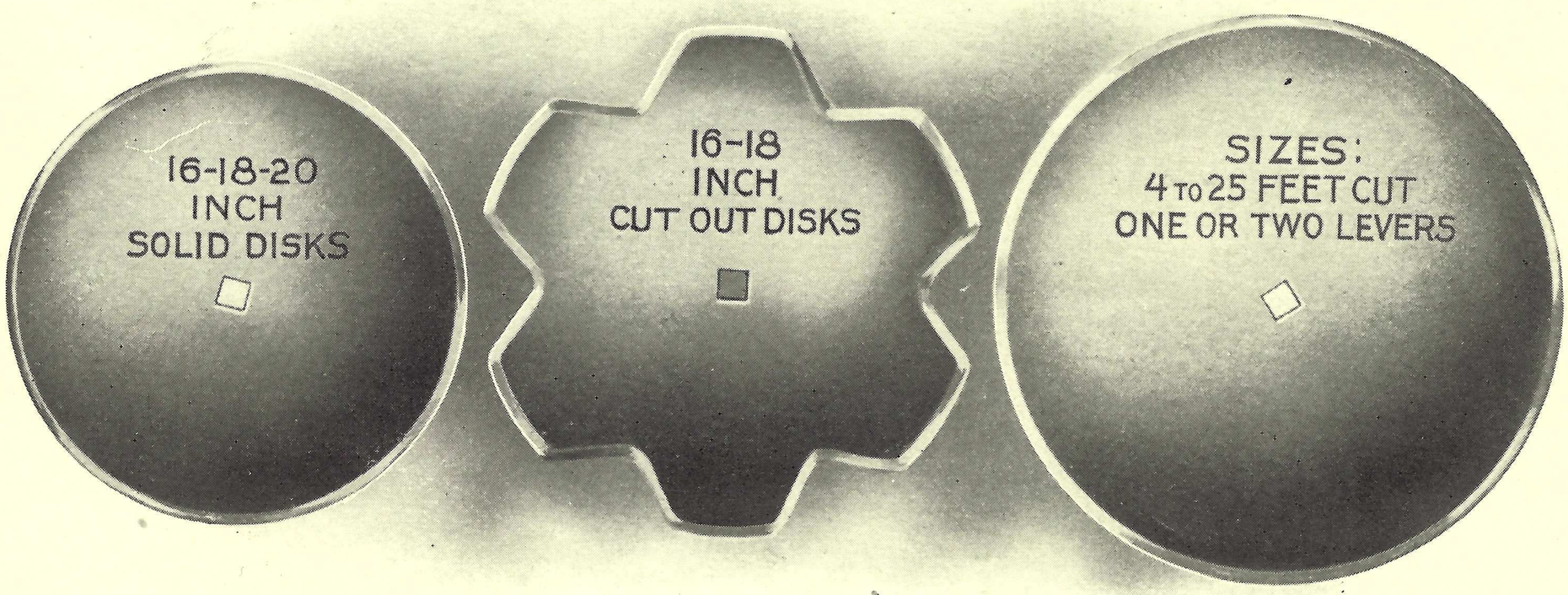
The second engraving shows our new draft standard with a complete set of roller bearings. Used only on the "Continental," the roller bearings make it the lightest draft disk harrow on the market.

They reduce friction and are dust-proof. The standard is made in three parts, with a steel support. The new construction gives more clearance and allows the trash to pass through better. Is stronger even than before and cheaper to replace. The oil tube is placed where it will be free from dust.

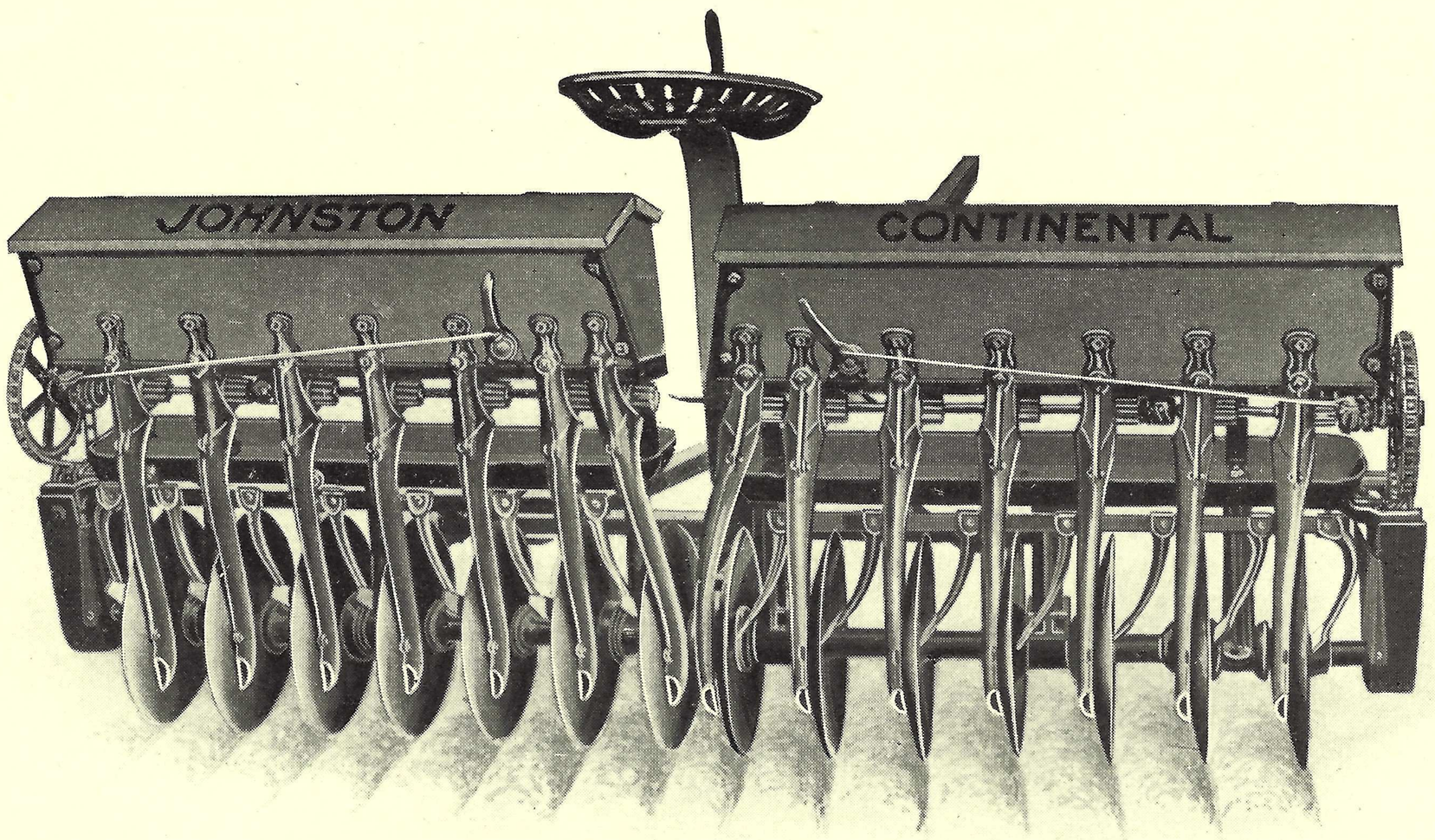


The scrapers have steel blades that fit the disks and remove all the dirt. They are operated by foot levers in front. We use pressed-steel weight boxes of our own manufacture.

"Continentals" are made in the following sizes and styles: From 4 to 25-foot cut. Solid disks, 16, 18 or 20-inch. Cut-out disks, 16 or 18-inch. Two levers for all sizes up to and including 8½ feet in width. Center-cut, and disk drill and seeder attachments furnished at slight additional cost. The center-cut attachment tills and levels the soil between the gangs. It is adjustable from the seat and a spring trip prevents breaking of points.



Johnston Disk Drill and Seeder Attachment



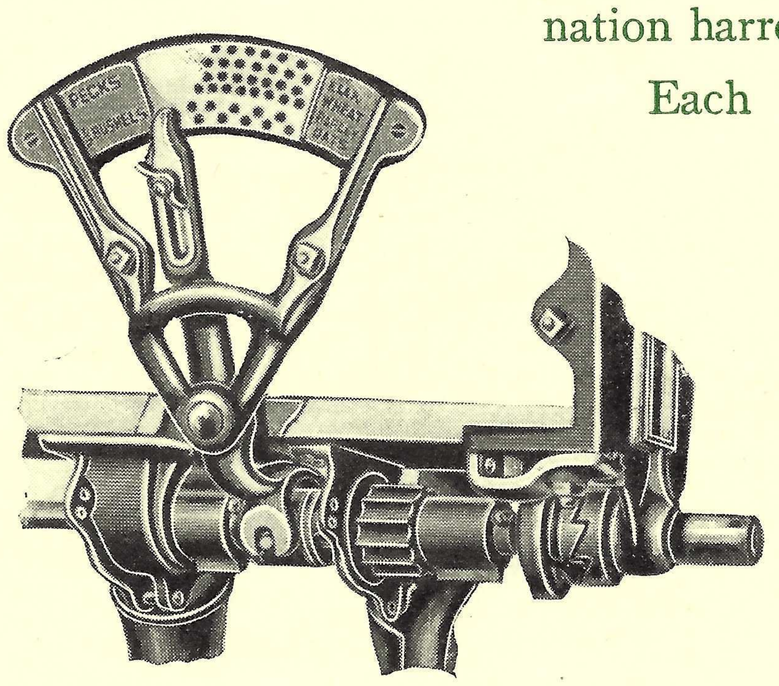
We cannot too strongly impress on the user of farm implements the argument of "economy" in favor of using machines for which attachments are built, that double or treble the value of the original machine.

It is worth while to know that the Johnston Disk Harrow

takes seeder boxes for each gang separately, that these boxes may be set-up to sow in rows or broadcast,

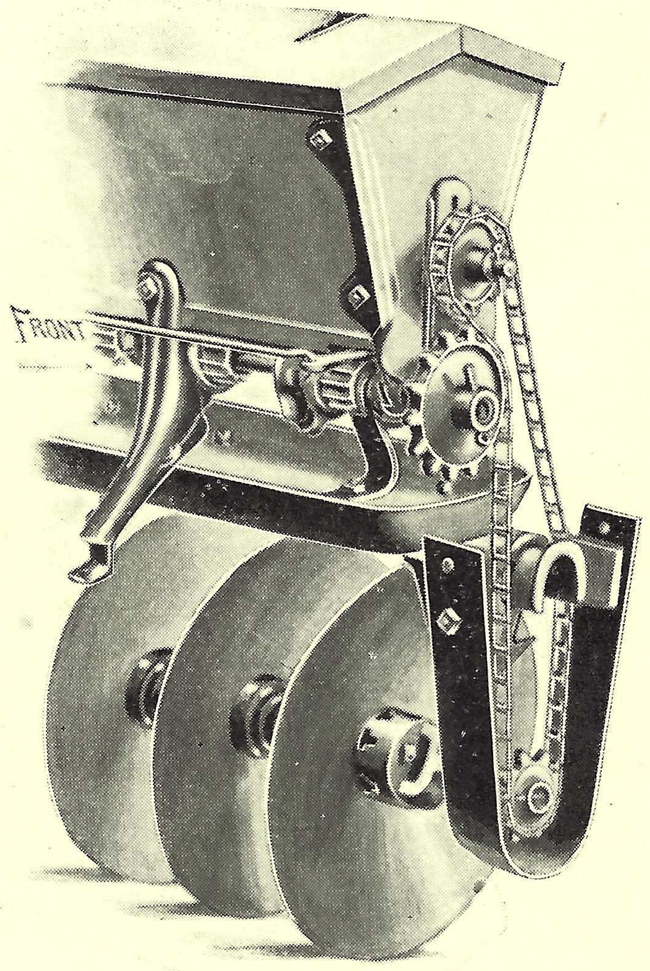
that the harrow and seeder (combined) takes up no more room than regular grain drill.

The latter usually has ten spouts; our smallest disk drill has 12 and the other sizes have 14 and 16, respectively. They are made to fit 16, 18 or 20-inch disk harrows—a variety of sizes and without losing the distinct advantage of combination harrow and drill.

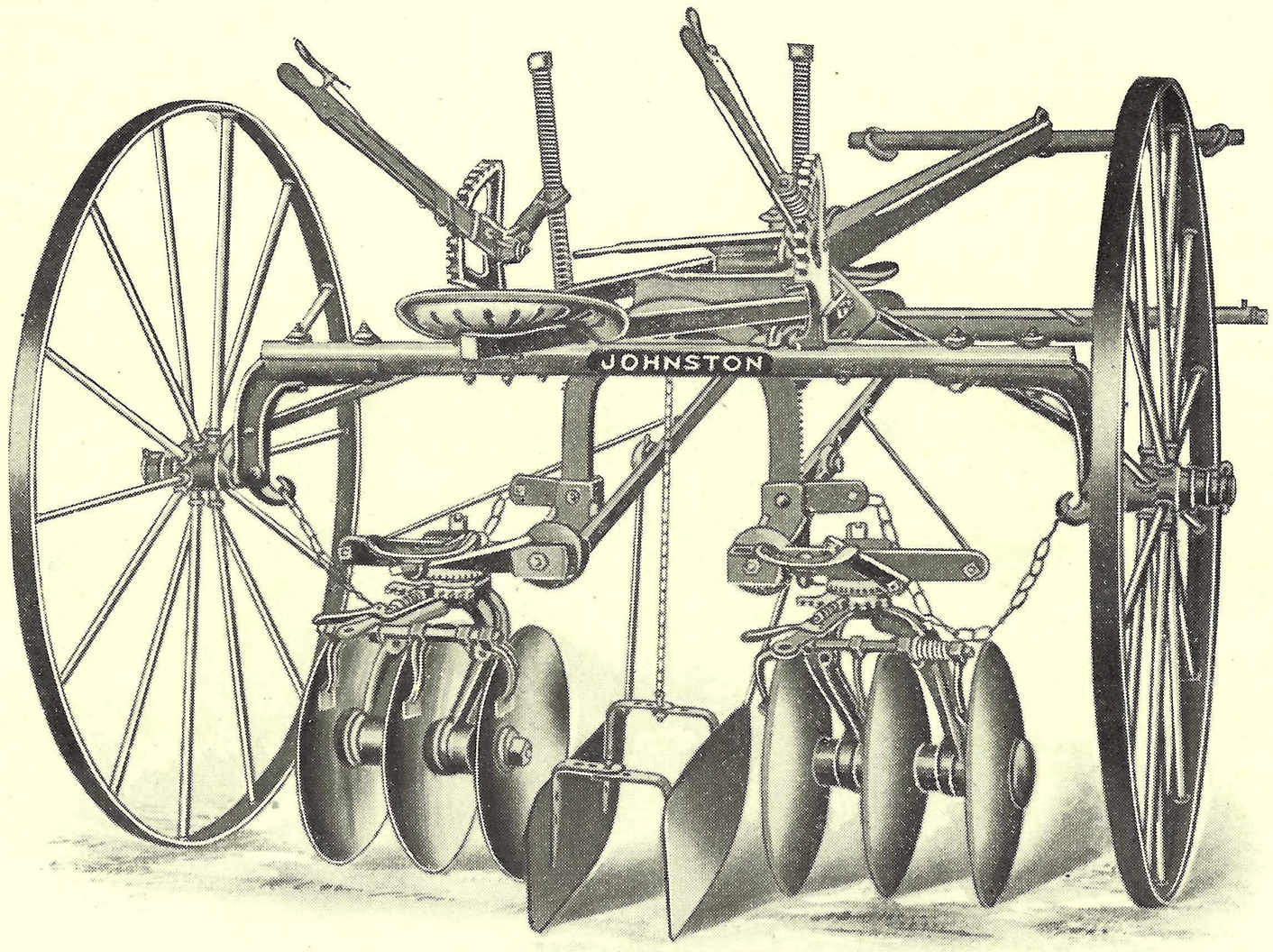


Each seeder box holds about two bushels of grain.

A perfect force feed, regulated by an adjustable indicator lever, is shown in the engraving.



Johnston "Continental" Disk Cultivator



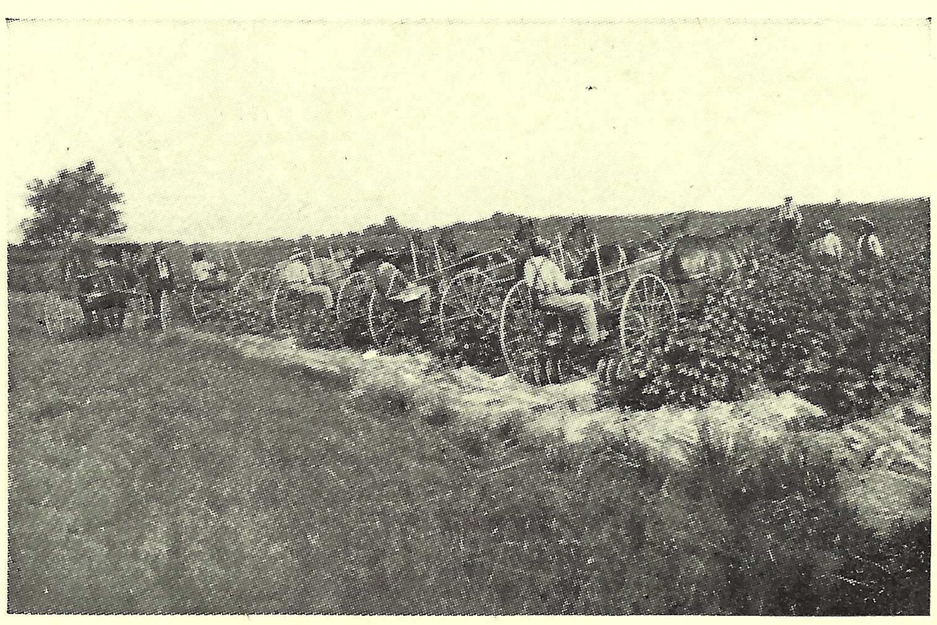
For the proper cultivation of crops grown in rows, especially corn, cotton and tobacco.

The disks can be adjusted to throw the soil to or from the plants, and at the same time thoroughly pulverize the whole row. Can also be adjusted to cultivate shallow near the plants and deep in the middle of the row. The operator can put the disks in the ground to any depth desired. Improved levers and pressure springs control the adjustments.

The "Continental" has steel wheels with staggered spokes, interchangeable yoke boxes, dust-proof oil tubes, gang shifter levers and steering device.

Makes any shaped hill, either flat or crowning. For cotton, the "Continental" will make a perfect bed.

Furnished extra: Spring-pressure levelers, extra disk attachments, spring-tooth attachments.



In Cotton at New Bern, N. C.



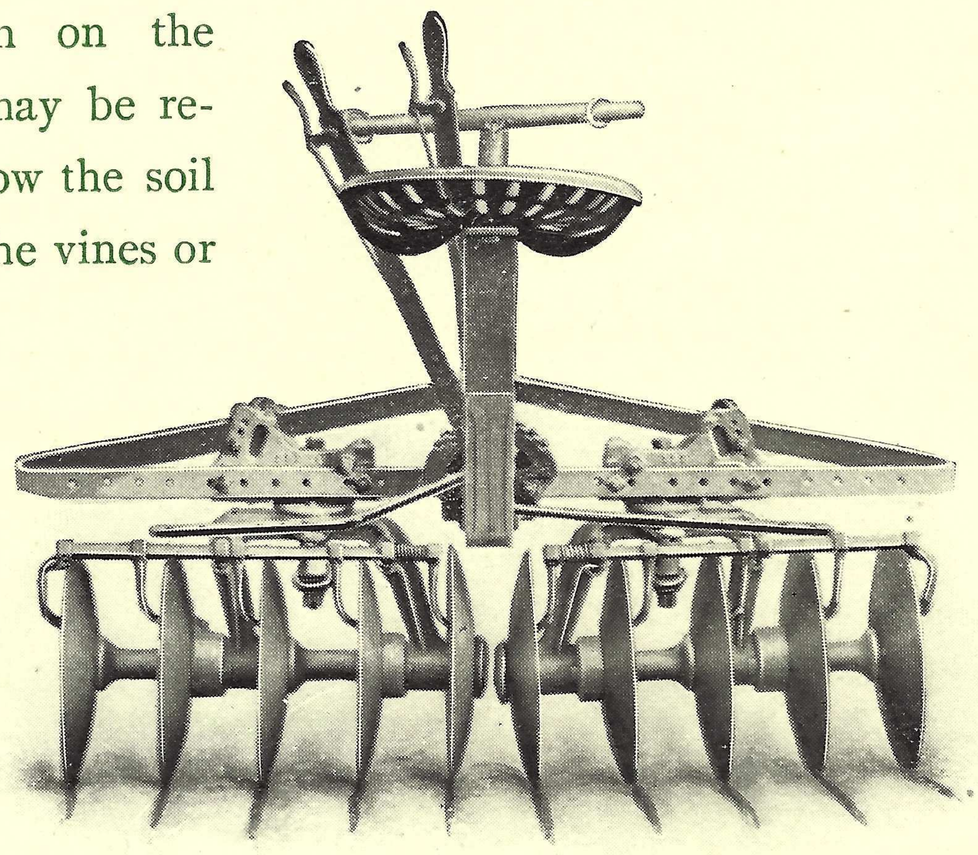
In Strawberries at Chadbourn, N. C.

Johnston Orchard Disk Harrow



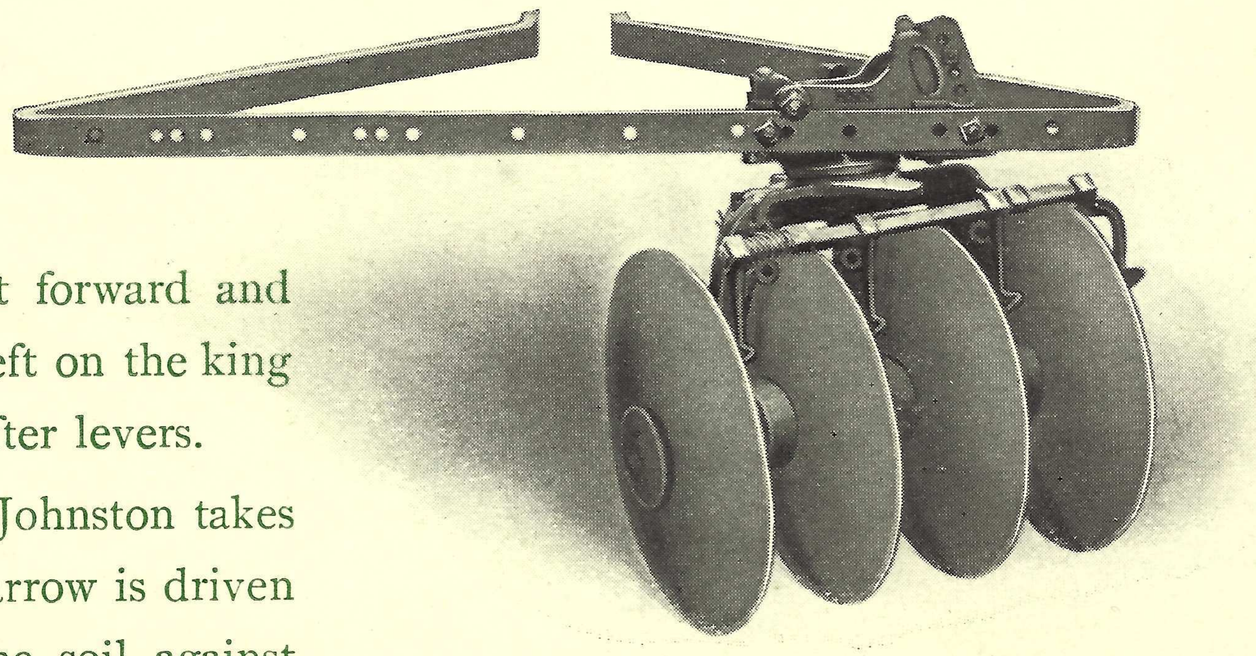
For orchards, vineyards, orange groves. Designed especially for fruit farms, but may be used as an ordinary harrow with perfect results.

This harrow is reversible and adjustable. The gangs are interchangeable in their position on the frame, and may be reversed to throw the soil to or from the vines or trees.



The levers adjust each gang separately to any angle, and the gang hinges adjust to cut deep or shallow in the center. The disks do not harm the tender roots.

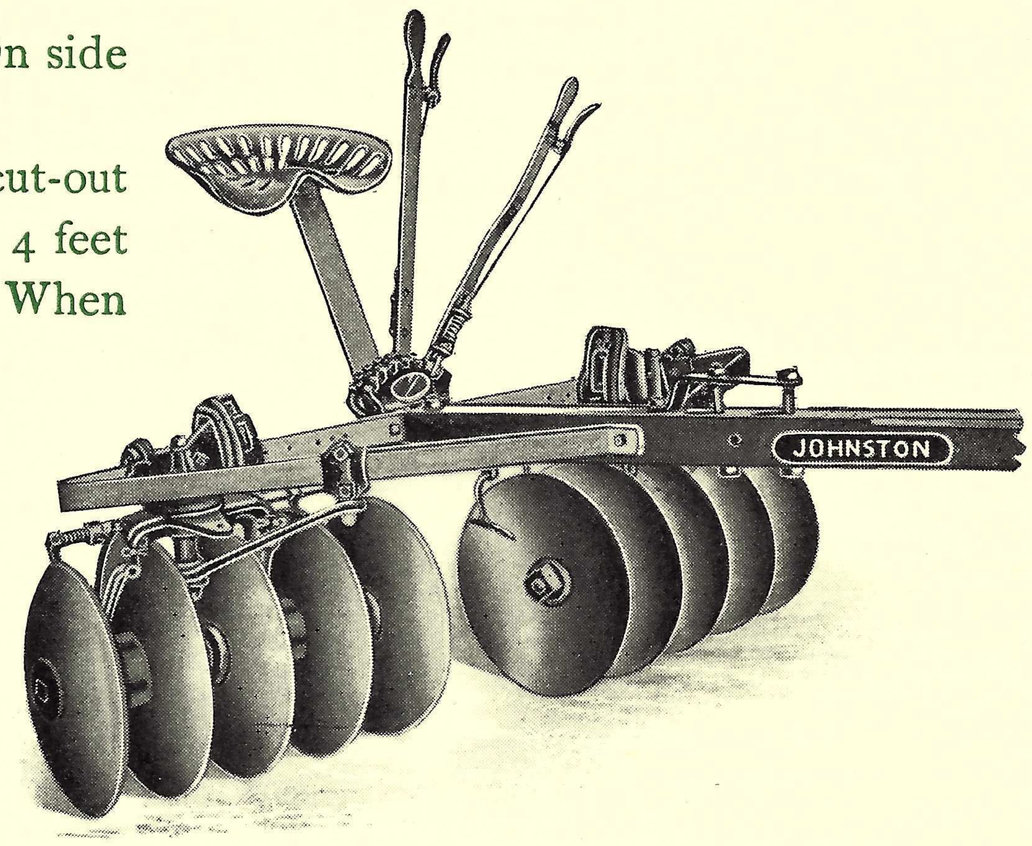
Has a special steel frame that has never given a bit of trouble, strong arches or yokes for the support of the gangs, a series of bearing boxes that take up the friction and the best quality steel disks.



The engraving shows the adjustment up or down, by means of the hinge on top of the frame and the adjustment forward and back by swinging to right or left on the king bolt and controlled by the shifter levers.

In grape cultivation, the Johnston takes the place of a plow. The harrow is driven between the rows, throwing the soil against each row. At the same time, it cuts ten furrows and cultivates all of the ground thoroughly. A plow would have to travel through each row several times and would not do the work thoroughly.

Johnston Orchard Harrow



For cotton, it will make a perfect bed. On side hills, it does the best kind of work.

Is furnished with either solid or cut-out disks, 16 or 18-inch, with eight disks to cut 4 feet 4 inches or ten disks to cut 5 feet 6 inches. When fitted with extension frame for the cultivation of orchards, the machine measures 10 feet 1 inch in width.

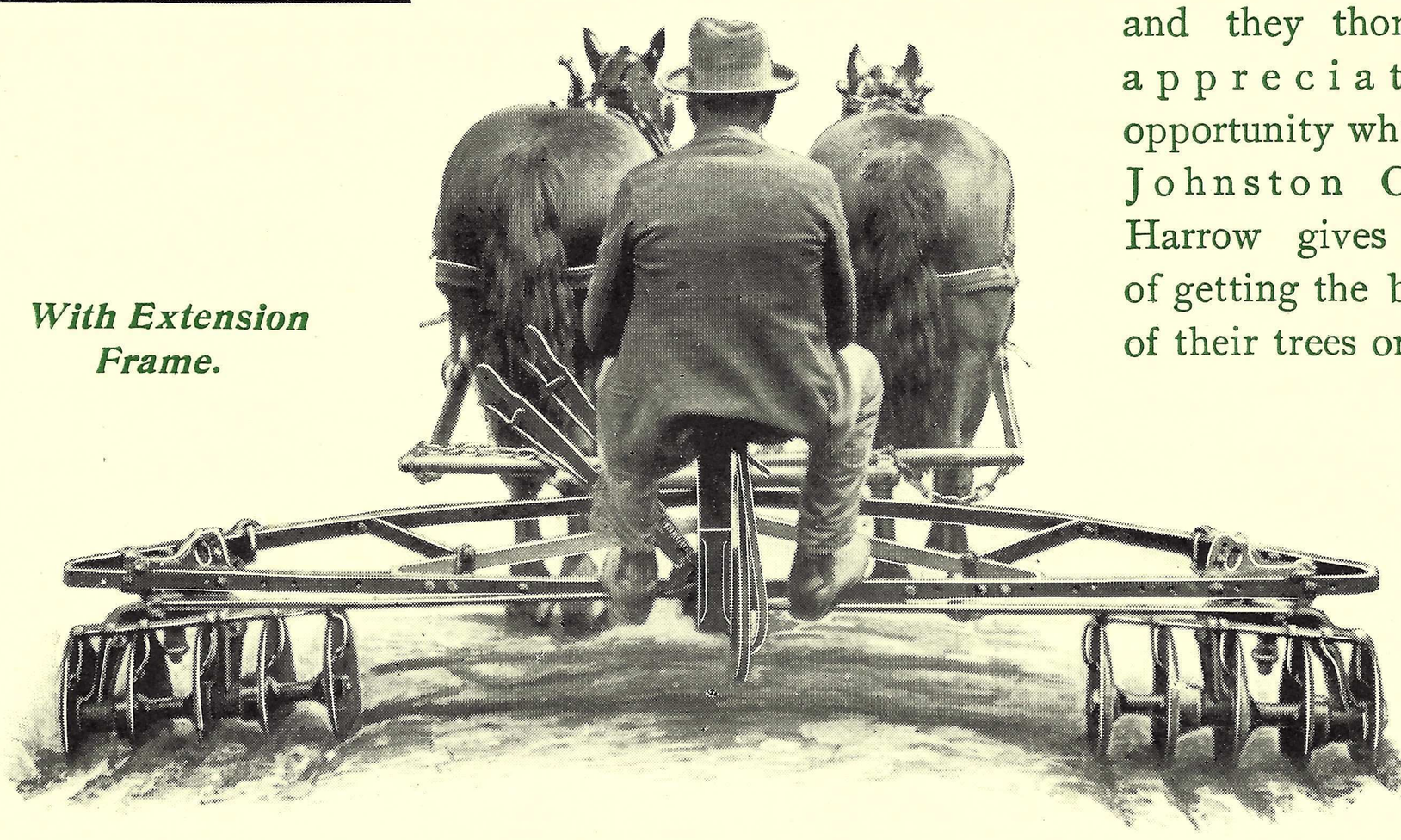
The extension is designed for the proper cultivation of orchards. With it,



With Extension Frame.

the operator can cultivate under the trees, close to the trunks, and the horses do not interfere with the branches or injure the fruit.

The frame is made of steel in two sizes and is easily attached to the harrow. It is furnished only when ordered, but it will save many times its price in increased value of your orchards. Farmers who are largely interested in fruit growing are finding this sort of cultivation absolutely necessary and they thoroughly appreciate the opportunity which the Johnston Orchard Harrow gives them, of getting the best out of their trees or vines.



Johnston Perry Harrow

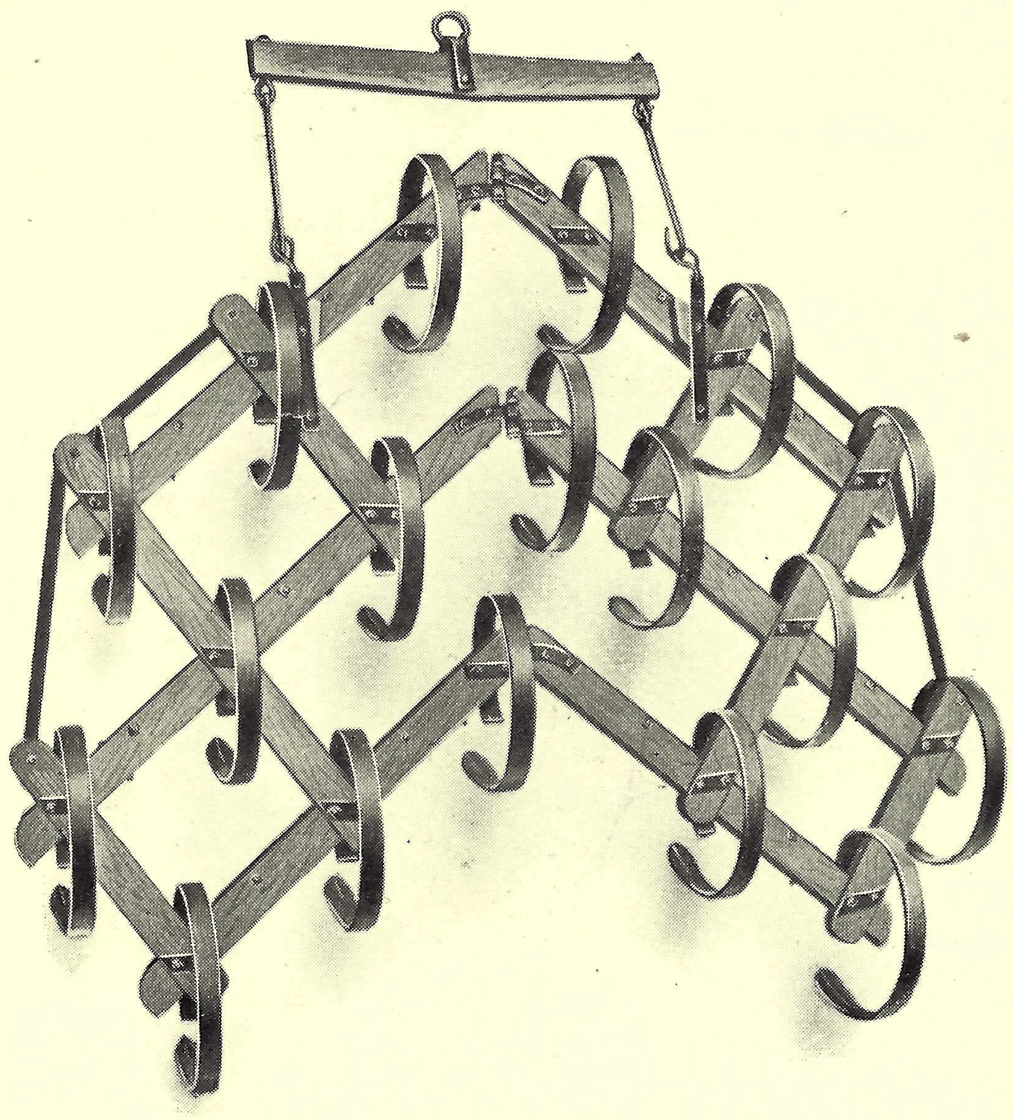


Sizes : 16, 18, 20 or 22 teeth.

The frame is "A" or butterfly-shaped—the only practical frame for spring-tooth harrows. Horseshoe or square-frame harrows cannot be made to meet the requirements for perfect cultivation.

The frame pieces are faced or lined in front and on the bottom with sheet-steel plates bolted to the frame, not nailed or fastened with screws.

The teeth are 44-inch, with the proper curve for perfect work, and are securely fastened to the underside of frame, so that they will not trail. Are made of special steel.



The teeth are not arranged in parallel rows but are set diagonal to the draft and scattered so as to cultivate all the ground.

The Perry Harrow cultivates thoroughly and does not leave furrows or ridges. Simple, light and durable. Fully guaranteed.

Extra Parts

Complete assortments for old and new machines, carried at Branch Offices and main transfer points. Prompt and careful attention given to all orders.

At Moulin, France :
Johnston Thresher Binder Attachment.

In Europe : Harvest with the Cradle.



Field Scene
at Cambrai.

Binding by hand.
On the Loire, France.

Bretons in costume.

1905

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Edited by: Brian D. Szafranski
Elma New York USA

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